REPEATER JOURNAL

SouthEastern Repeater Association, Inc.

May 1988

2.50

Inside The Dream Station

New Tennessee Director

Also This Issue. . . .

- Updated 7-State Repeater Index
- Packet For The Beginner
- SERA By-Law Changes Made
- Where We Came From - Pt. II

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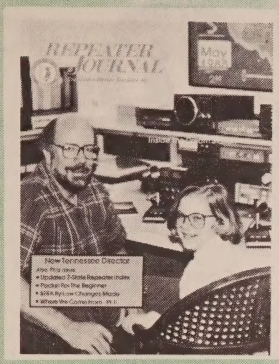

Young Huntley Smith, KC4DRE, sits proudly with her father Randy in their new ham station. WA4HUV, who worked and saved for years, has finally built the "dream station" we all think about. All bands, all modes. The Repeater Journal looks inside this new station, in Part II, Constructing a Dream Station. Color Slide courtesy of Roy Neal, K6DUE.

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REPEATER JOURNAL

CVRA - SouthEastern Repeater Association, Inc.

May, June, July 1988
Volume 17, No. 2
Organized In 1971
"In Our 17th Year"

Editorial Comment

Looking Back At Our Roots! Part II

In the February issue, we started at the very initiation of what was to become SERA. The days when Don Harris, W4BUZ, F.L. Warford, W4AZA and Bill Simms, K4RUQ decided to gather repeater owners together in North Carolina and give birth to the North Carolina FM Repeater Association.

In those days, Don Harris said, "We want to strive for quality, not quantity."

They worked hard for many years, taking the siberling organization and making it work. Today things haven't changed too much. There is great quantity, strictly due to the demands of Amateur coordination, but the desire for quality remains for the dedicated "ones who care" - a phrase coined by our present Treasurer, Ray Adams, N4BAQ.

It takes a lot of work, many countless hours by many people to make an organization like SERA work. For the most part, it has worked, and continues to do so. The sheer magnitude of the job is the main obstacle which must be overcome by the present leaders of SERA. To maintain the quality, sought by those early leaders, and continue the course they plotted for the organization gets more difficult with each year.

The Repeater Journal

The first Repeater Journal was published by Don Harris in September of 1971. The main story of that first Journal was a cover story by Don, "What FM Repeaters Offer You."

Another Journal was published in December, 1971. The first ever paid ad appeared in this issue. Everhart Electronics of Lexington advertised Tone Burst encoders for all radios, and his line of radios which included Regency HR-2A, Unimetrics, Minivox IV, and Standard's SR-826M mobile and SP-C146 Handheld.

That issue of the Journal dealt heavily with assigning areas of the state tone burst frequencies, because they felt that repeaters would surely need to be accessed via tones due to few frequencies, and the enormous growth expected in repeaters.

The first NCFMRA Repeater Directory was published in September of 1971. The neat little booklet contained stories and information about repeaters, advertising, and not only a repeater directory, but a full information sheet about all the repeaters in the state. Some 18 repeaters were listed in the first index, which included one Virginia repeater in Danville. They were all on one of five repeater pairs:

(16-76) Chapel Hill, Greensboro, and Mt. Pisgah.

(22-82) Roaring Gap.

(28-88) Danville, Va., Elizabeth City, Raleigh, Salisbury and Shelby.

(31-91) Lexington.

(34-94) Asheville, Beulaville, Charlotte, Durham, and High Point.

In 1972, Bill Parris, K4GHR took over multiple duties of Repeater Journal editor, Sales manager, circulation manager, and Associate Membership Chairman. Bill Paige, WB4LWX of Kinston was Full Membership Chairman. Frequency Coordination for the NCFMRA was assigned to Charles Durst, WA4WTX of Durham.

The job of Associate Membership chairman was handed over to Lindsay Cleveland, W4IZI of Burlington in 1975.

More New States

The NCFMRA began it's first of several growth periods in early 1973.

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REPEATER JOURNAL

May, June, July 1988

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About Associate Membership

Repeater users and Amateurs are invited to join SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication — Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calendar year.

About the Repeater Journal. . .

The SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of Southeastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newsletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

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About SERA. . .

The Southeastern Repeater Association is one of the largest Non-Profit Repeater Councils in the United States. SERA Territory covers over 1,000 repeaters in member states of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, East Kentucky and Georgia. In our 17th year, our goal is to continue providing a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio through Coordination and information.

Geisler and Larson Named Tn. Director and Vice Director

In March, SERA President Carter Cogle confirmed the appointment of Jean Geisler, W4TYU as Director of the Tennessee District. At the same time, upon recommendation of the new Director, James H. Larson, WB4KQQ of Memphis was named Vice-Director for Tennessee.

Geisler, who was elected Vice-Director of Tennessee in 1987, assumes command upon the resignation of J. Tom Park, WD4KWP who had served several years as Tennessee Director.

Park cited personal reasons, and the burden of his new job, not leaving time to attend to the duties of Director, as his reason for resignation.

Tom was only Tennessee's second Director since the state became a part of SERA in the early '80s. He succeeded Sam Kirby, WB4HAP, the first Director.

Gene Geisler of Knoxville, with several years as Vice-Director for Tennessee, brings experience needed to carry on the important job of Coordination in that District.

Gene, 64, has been a ham for 37 years, and active in repeater work for about 10 years. He is also active on HF, mostly CW and MARS. Gene is also the ARRL Delta Division representative on the VRAC.

Jim Larson, a resident of Memphis, is retired and very active on PACKET, and owns VHF & UHF repeaters in the Memphis area. He has been instrumental in assisting in organizing a Packet organization for the Tennessee area.

Gene said that Jim, with his previous experience in Coordination, will be a valuable asset to him and the Tennessee Amateurs, by giving a much needed strong representation of SERA to the Western part of the State.

Both Gene and Jim solicit your support, and offer any assistance you may desire or need in terms of repeater support, information, or coordination.

Gene said he will be appointing other Assistant Directors in the near future.

Repeater owners wishing to contact their Director or Vice Director, will find their names, phone numbers and addresses on the outside back cover of the Repeater Journal.

Election of Directors Scheduled for Yearend

This fall, it will be nomination time for all seven District's Directors and Vice-Directors. SERA Full Member repeater representatives should be evaluating their Officers and making a decision as to whom they would like to have Coordinate frequencies and run SERA in their state for the next two years.

President Cogle will name a nominating committee in late August. They will recommend a slate of officers. The November Journal will also publish a "from the floor" nomination ballot to allow ANY group of full members a chance to nominate someone of their choosing.

Repeater Journal Wins "Superior" In ARNS Competition

The Repeater Journal scored well in the Amateur Radio News Service's 1987 Publications Contest and walked away with the highest rating that can be given, "Superior." The award, a handsome certificate was sent to the editor of the Repeater Journal, along with the grades presented by the three judges.

Two judges gave the Journal scores of 71 and 73 respectively of a possible 80. One other judge apparently did not like the Journal. He gave us a score of only 55 points.

His comments written at the bottom of the scoring sheet said, "From a big Journal of this size, I expect more." "Much of the type size is too small." "Some cartoons and humor is needed and the pages are too crowded."

Fortunately the other two judges were not comparing us with QST or CQ magazine and helped us to win the "Superior" rating.

Are You Proud of Your Newsletter

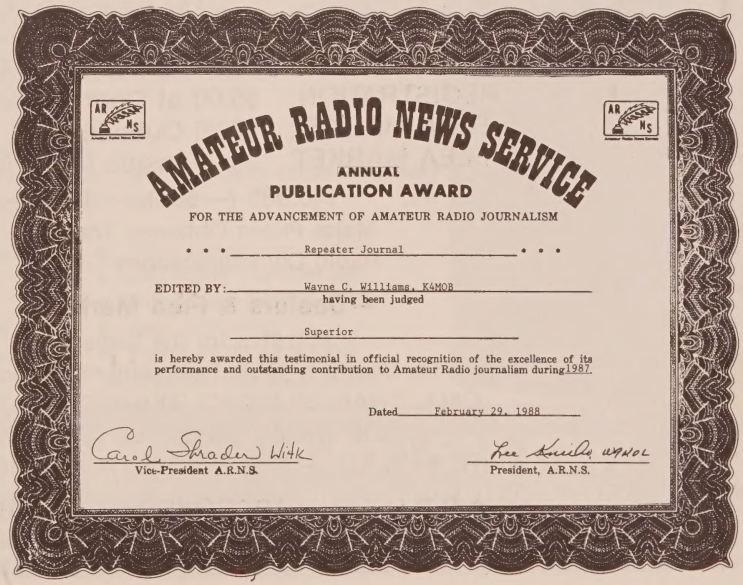
Newsletter editors of clubs and organizations who feel their works are fitting for competition may enter the 1988 ARNS Publications Contest.

The contest is designed to reward superior performance in Amateur Radio journalism, and is open to Amateur Radio publications worldwide.

Newsletters are judged on: (1) General Format (2) Appearance, (3) Content and (4) General Interest & Attractiveness.

If you wish to enter the 1988 ARNS publications contest, you may write for an entry blank. Write LEE KNIRKO, W9MOL, 11 S. LaSALLE ST., SUITE 2100, CHICAGO, IL 60603. Please include a S.A.S.E.

Publications are judged compared to other entrants from like-sized clubs and will be issued categories of "Superior", "Excellent" or "Good". Each entrant will receive a critique listing both nothworthy points and suggestions for improvement.



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EDITED BY: Wayne C. Williams, K4MOB
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Dated February 29, 1988

Carol Shaden W1HK
Vice-President A.R.N.S.

Lee Knirko W9MOL
President, A.R.N.S.

ROANOKE VALLEY AMATEUR RADIO CLUB

28th ANNUAL MAYFEST

SOUTHWEST VIRGINIA'S LONGEST RUNNING HAMFEST

DATE: May 29, 1988
HOURS: 9:00 AM - 5:00 PM
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2nd PRIZE: 2-Meter Handheld or Cash Equivalent

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WHEN: Hamfest May 29, 1988 at 8:00 AM
Cutoff date for registration is May 14, 1988. No walkin or novice exams.

DOCUMENTS NEEDED:
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A.R.R.L. APPROVED HAMFEST

TEARC VEs Meet Weekly on 3760

Jim Williamson, NQ4T, chief Officer for TEARC VEC reports that he and most of the TEARC VEs are now meeting weekly on Monday nights at 3760 khz (plus or minus QRM) at 9:00 p.m.

Jim said this was an excellent opportunity for the various VE (Volunteer Examiner) teams to get together for the latest information and news concerning the administering and processing of Amateur Examinations.

He said Ray Adams, N4BAQ, a director for WCARS-VEC has checked into the net often, as has Tom Ingram, Chief Officer for the Central Alabama VEC.

VE team captains have a chance to request materials, or ask any questions regarding exam dates, 610s or whatever.

Jim said as more officers of other VECs start participating in the net, perhaps a wide-area information coordination effort can be conducted weekly, since various VECs and their VE teams have a chance to participate in the net.

All VEs, VE Team Captains of all VECs are invited and encouraged to check in and contribute to the meeting.

Jim said the net was mainly for passing of VE information, anyone is welcome to listen in.

FCC Denies Reply Comment Extension On Docket 87-14

— via W5YI News

The FCC has denied a request by Art Reis, K8XI, editor of "220 Notes" to extend time for replies on the Docket 87-14 late comments filed by UPS.

Reis argued that additional time was needed to alert Amateurs to the UPS comments on the 220 Mhz. Docket.

The Commission said that the 15-day reply period should provide ample time to replay to a single comment filed by UPS.

W5YI News reports that Julius Knapp, an FCC staffer in the Office of Engineering and Technology which is currently considering the 220 Mhz. NPRM, has said he doesn't expect the office to act on the Docket until June at the very earliest.

Earlier they had announced that a report might be forthcoming by March, but the schedule had to be moved up.

CQ Magazine To Publish Buyer's Guide

— via CQ

CQ the Amateur Magazine publisher will be coming out this fall with a new, fully illustrated ham radio directory of new equipment.

Pete O'Dell, WB2D will do the compiling and editing job. Information questionaires have been sent to all dealers, distributors and manufacturers for information to be used in the "Amateur Radio Buyer's Guide."

Included in the directory, whichis expected to be a quarterly publication, will be illustrations, specifications, features, suggest list prices and photographs of all Amateur radio gear.

The Buyer's Guide will also list dealers and brands sold, and other pertinent information.

Associate Members

Associate Members are the backbone of support for SERA. Tell a friend about us. Get him to join the Coordinating organization that has worked for you for 17 years.

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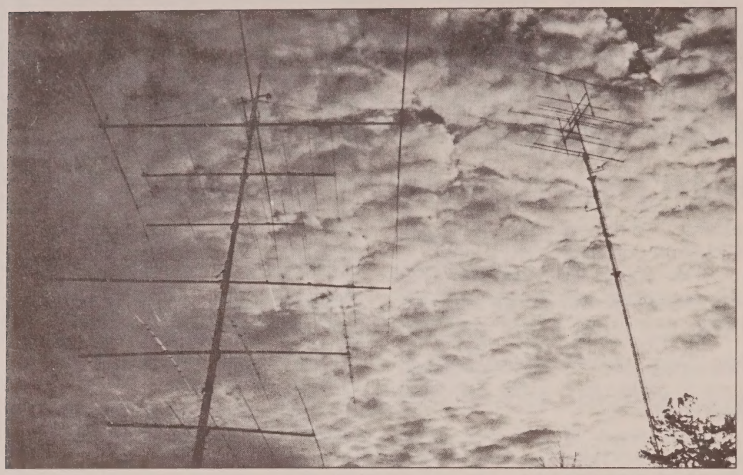
A Look Inside!

Constructing A Dream Station, Part II



Cover Story

— by Wayne C. Williams, K4MOB

"For years I had in my mind to construct, some day, a first class Amateur Radio station," Randy Smith of High Point, N.C. said, "when my daughter, Huntley became fiercely interested in Ham radio, I decided, now is the time."

This was what started things off for WA4HUV in mid 1987.

"Huntley had seen me do some operating in my modest setup over the years as she grew, and had visited F.L. Warford's hamshack many times." "It was the Greensboro hamfest that set her off two years ago," Randy continued, "She began to live and breath Amateur radio."

Randy began design of the station. He called F.L., W4AZA, a neighbor and friend, and they designed everything on paper. Randy had been saving money for years to build such a station, and now was the time.

Construction began in late 1987, and is now about 98% complete, and operational.

Jim Covington, WA4YHH of nearby Winston-Salem did the wiring and installation of the consolers and equipment, tying everything together and making it work.

F.L. said, "Randy and Huntley have the ultimate setup." "They can use any transceiver on any mode and any band with efficient antennas and amplifiers to get the job done."

In February 1988, Huntley, now 11, got her Novice license and her call, KC4DRE. She is now very active on 10-meters and 220 mhz. Her favorite 220 repeaters are F.L.'s on 223.92 and Jim's on 224.64. Her favorite spot on 10-meters is 28.400.

Huntley has learned about every changeover in the new shack, and even helps dad, when he stops to think which switch to throw for a certain antenna.

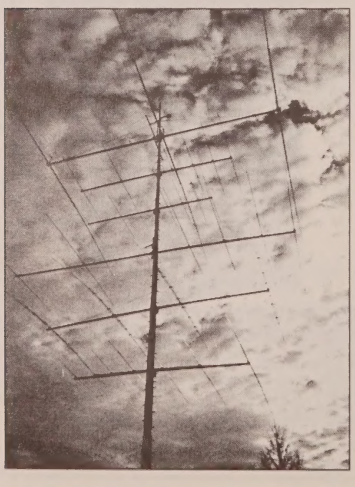
F.L. said she sounds like an old pro on the bands now, and has already logged some staggering lists of good contacts.

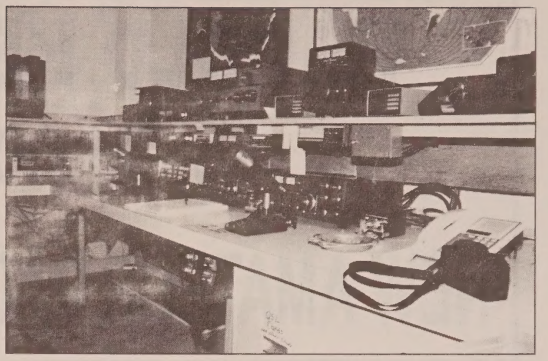
The Station

The overall station is backed by a 4-KW gasoline or natural gas powered generator. The equipment includes:

HF Bands: A Yaesu 980 transceiver is hooked to the log periodic for DX spotting. The working rig is a Yaesu 767

Continued on Page 7





helped by a Henry 3K amplifier for the HF bands. Each band has it's own monobeam.

VHF/UHF: A Yaesu all mode 726R gives 2-meter, 6-meter, and 440 mhz capability. A switchable stacked array r each band is ready for operation. Amplifiers include, Henry 2K, Henry 440K and Henry 6K. On 220 mhz, an ICOM IC-371 feeds a KLM 220 beam.

SLO-SCAN: A Robot 1200C has interconnect capabilities to the Yaesu 980, 767 and 726R and the ICOM 371, merely by flipping switches for inputs and antennas.

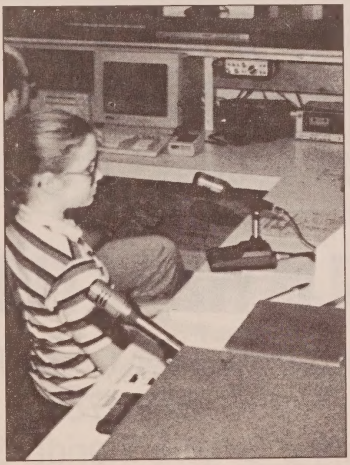
Packet: is operated with a Kantronics KAM with 2.83 language which gives facimile, Packet, CW, RTTY on all bands through all transceivers by switches.

Fast Scan TV: is run through a PC Electronics Fast Scan transceiver into a Tokyo Hy-Power amplifier on 439.25 mhz. This feeds into a 4 KLM long john horizontal antennas.

Huntley has an Epson Equity II computer, and has become quite proficient on it with her graphics program, making Dad overlays and call letter displays for his TV operation.

Randy plans to work with F.L. with installation of an ATV repeater on 440 mhz on Sauratown Mt., just north of Winston-Salem in the near future. His system will have the capability of switching fast-scan to slow-scan or back with cross band operation.

Presently Randy is getting excellent reports on 20-meters from



Hong Kong, areas of Turkey, the Indian Ocean and other hard places to pick out of the mud.

One of his proudest pieces of wallpaper he has just received is a "Good Guy" report from an ARRL Official Observer. He got it on 80 meters one day.

"I'm getting into phone patching for servicemen already," Randy said, "I remember how great it was to talk home when I was in the service, so now that I have the capability, I plan to help out a lot in passing phone patch traffic from our servicemen."

Randy operates a sporting goods shop in High Point. If you are in the area, stop by and see him. He just might invite you to come by and operate some at his station, that is if Huntley isn't already on the air.

'I'm very proud of how she has gotten involved in Amateur Radio," Randy said, "She's now studying for her Technician License, and then General." "She wants to be able to work all this stuff."

And who wouldn't. . . All bands, all modes. . . the ultimate dream station.

Estes Assumes Director Post In East Kentucky

— by Wayne C. Williams, K4MOB

Terry Estes, WB4ASZ has been confirmed as the new director for East Kentucky, by Carter Cogle, K4ARO, President of SERA.

Terry of Winchester, was instrumental in getting the 20 Eastermost Counties of Kentucky to join SERA as a District in 1985. He had served the post of Vice-Director since the beginning.

Fred Jones, WA4SWF of Louisa, the original Director of East Kentucky, resigned his post in a letter received on April 28, stating that pressing personal and business circumstances prevented him from being able to carry on the job as Director.

Fred and Terry working as a team over the past years have done a good job in coordination, and getting the word out for Eastern Kentucky.

Terry said he will continue to keep SERA before the eyes of East Kentucky. The remaining part of Kentucky is in the process of organizing a Coordination Council and will probably look to Estes for guidance and ideas on coordination which has been gleaned from SERA's 17 years of experience.

East Kentucky repeater owners are advised to contact Terry Estes for coordination or information. We were unable to get the names changed on the back cover of the Journal when the announcement was made because of early deadlines for the color covers.

Terry will be contacting each of you in the near future, to offer any assistance, and to gather repeater information for the SERA data-base for East Kentucky.

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Technical

Hamtronics REP 100 Problems

— by Jim Abercrombie, N4JA

Here in Augusta the availability of surplus cheap commercial VHF and UHF repeater gear is non-existant. The commercial dealers here buy up all the used gear and put it in warehouses to use for parts or to sell to commercial users. Since VHF Engineering is no longer making repeater gear and poor souls like myself cannot afford 3000 dollar machines, that leaves Hamtronics as the only manufacturer offering repeaters in kit form and in the price range I can afford. Their new receivers, COR, I.D., DTMF, and autopatch boards work flawlessly. I especially like the receiver sensitivity, selectivity, and squelch action. The transmitted audio is first class. In my opinion its better and clearer than the kilobuck super machines owned by the local clubs. But there have been problems that have led me on a three year search for their solution.

There are four problems common to the HAMTRONICS REP 100 2 meter repeater. All four problems can be traced to two causes due to the design of the transmitter amplifier stages. First, the receiver suffers desense; second, the repeater squelch hangs up in the unsquelched state; third, the REP 100 will "kerchunk" itself; and fourth, it will bring up other area repeaters, some outside the ham bands. These problems are intermittent and may only show up at certain temperatures.

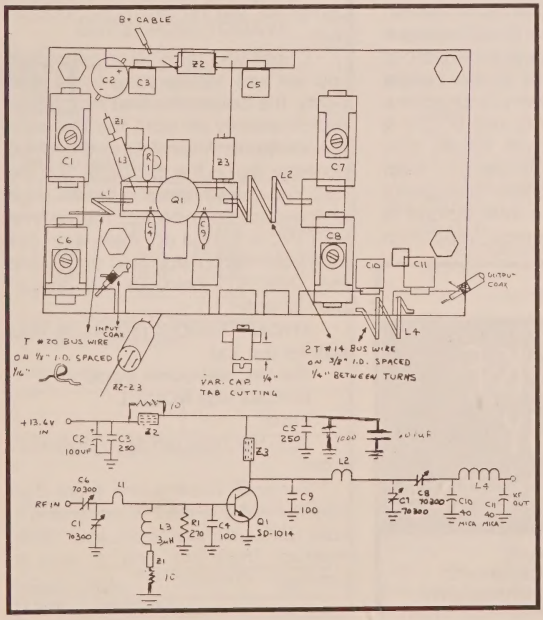
One of the causes of these problems is an intermittent VHF spurious oscillation of the LPA 2-15 fifteen watt amplifier. Since the oscillation frequency changes with temperature, the nature of the problem changes as the temperature changes. The repeater may operate perfectly for periods, then malfunction when the oscillation reappears. This self oscillation alone will cause any of the four problems mentioned in the paragraph above. The second cause is due to white noise generation in the LPA 2-15R and the RPA-45 amplifiers. The white noise masks incoming received signals causing desense to the receiver, and at times may cause the squelch to hang up in the unsquelched state, and if it hangs up long enough the repeater times out.

The cure is cheap and easy and I hope it will be incorporated into the HAMTRONICS kits. To solve the self oscillation problem of the LPA 2-15R amplifier, refer to fig. 1 and unsolder the grounded end of L3 taking it loose from ground. Solder a 10 ohm 1/4 watt resistor to the free end of L3 and solder the other end of the resistor to ground, thus putting this resistor in series with L3.

Amplifier white noise is due mostly to amplification of low frequency thermal noise and at times to low frequency oscillations. The cure is to reduce the gain of the amplifier stage at low frequencies while keeping the gain of the stage high at the desired frequency. On the LPA 2-15R this can be accomplished by the following modifications; add a 1000 pf uncased mica and a .01 mfd. ceramic capacitor in parallel with C5, a .01 and a .047 mfd ceramic capacitor in parallel with C3, and add a 10 ohm 1/4 watt carbon resistor in parallel with Z3.

To increase the stability of the RPA-45 change L2 from 5 turns to 3 turns spaced to fill the distance from C9 to the collector of Q1. This modification and the additional capacitors described below eliminates the tendency of the amplifier to oscillate in the HF region of the spectrum. Unsolder the grounded end of Z1 and connect a 5 ohm noninductive carbon resistor in series to ground. This eliminates any tendancy of the RPA-45 to oscillate in the VHF region. The white noise can be reduced on the RPA-45 amplifier by the following: add a 1000 pf uncased mica and a .01 mfd ceramic capacitor in parallel with C9, and add a 10 ohm 1 watt resistor in parallel with Z2. Refer to fig. 3. Note some later series of the RPA-45 amplifiers have a .001 disc cap across C9 and other drawings show a .01 across it. My drawing shows no capacitor in parallel with C9. In either case replace the .001 with an uncased

Continued on Page 32


B+ CABLE
INPUT COAX
OUTPUT COAX
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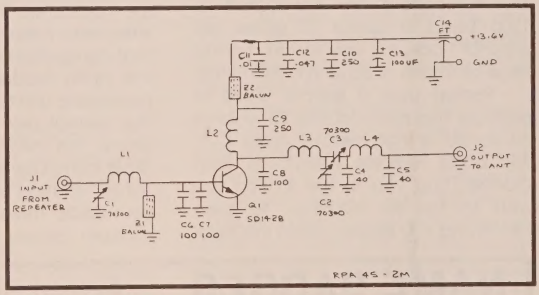
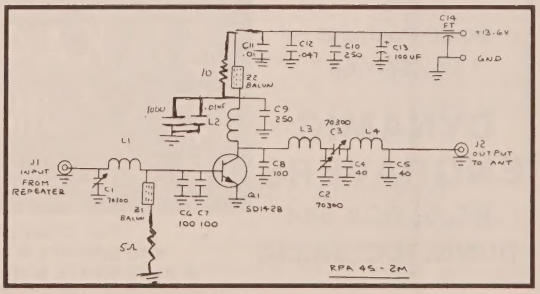
2T #14 BUS WIRE ON 3/8" I.D. SPACED 1/4" BETWEEN TURNS
VAR. CAP TAB CUTTING
+13.6V IN
RF IN
Q1 SD-1014





Packet Radio for the Beginner

— by Charles Layno, WB4WOR and Butch Way, WB4BWY

To the uninformed, Packet Radio looks exciting and difficult, all at the same time. But in reality, Packet is no more difficult than learning to ride a bicycle or learning morse code, and is just as fun.

As a matter of fact, CW was the first digital code. All forms and modes of digital communications can trace their roots directly to CW. Packet is no different. Packet does the same thing that CW does, takes information and moves it over great distances by converting it into a digital form. Packet just does it much faster. The average CW speed is around 25 - 30 wpm, if you are a CW fan. RTTY runs between 60-100 wpm, Baudot runs around 80 wpm and Amtor runs around 110 wpm. These are all good schemes but they have their short comings. The biggest is they are not error free. This is one of the advantages of Packet. When you see a message on your screen, you know it is what the other station has sent. I don't need to tell you the advantages of error free communications in the NTS or during an emergency. The other advantage is speed. Even at a slow 300 baud, which is only allowed below 28 Mhz, that is about 6 words per second! On 28 Mhz and higher most communications are conducted at 1200 baud or about 24 words per second! Packet is very fast in moving large amounts of data in a short time.

Packet uses a special code or protocol. That protocol is AX.25, which is derivative of commercial code X.25. This code handles everything from CONNECTing you to the station you wish to talk to ROUTING, to even identifying you station within the legal time limit. Packet was first developed by the University of Hawaii to transmit date between the islands of the Hawaiian group in the early 1970's.

So you are now saying, what do I need to get on packet? Most hams have a computer. Any computer will work. If you have means to communicate with a telephone modem, then you have the means to get on packet. Do you have a radio that will operate on one of the ham bands with packet activity? Then all you need is a TNC or a Terminal Node Controller.

The TNC is really a mini-computer in itself with the capability of making the CONNECTions and keeping up with the routing of all CONNECTions to that TNC. It also talks to the computer to keep you informed, and it too has a small information storage area.

The TNC is made up of 5 basic parts, power supply, radio modem, computer modem, central processing unit, and RAM storage. The power supply takes 12 volts DC and converts it to the needed +5 volts and -5 volts to run the different components in the TNC. A small backup battery is contained in this compartment to store information that will not change, for example, call sign of your station. The radio modem converts the digital voltages to tones that are sent out over the transceiver. The computer modem interpretes the serial or RS-232 voltages that computers use to send the data to the radio modem or to the central processing unit for internal instructions. The central processing unit or CPU is where the AX.25 code resides and other computer languages that keep things running smoothly throughout your QSOs. There is a RAM storage or random access memory area that special instructions are kept for short periods of time and it can be used to store incoming data for short periods of time also.

With the basics of what Packet is and the how and what of a TNC, how do you get on the air? First, connect the cable from the computer to the TNC. Most TNCs use a DB-25 connector. This is a 25 pin connector that is located on the back of the TNC. Rest assured that not all 25 pins are used or needed. Most TNCs of the TAPR 2 design, MFJ, AEA, Pac-Comm, and others, only need 4 wires to operate. Pin 1 and 7 are your ground and signal command. Pin 2 and 3 are your send and receive lines. If your computer also has a DB-25 connector on its communications port, try wiring 1 to 1, 2 to 2, etc. If this does not work, you may need a null modem, which inverts pins 2 and 3. If this does not work, consult your computer manual or seek help from a packet friend. Most are very willing to help. If you have a 4 pin or 9 pin communications port, consult your computer manual for the proper pin out. If you are running a Commodore C-64 or other TTL output computer, you will need a TTL to RS-232 adapter. Consult your computer manual for the proper adapter. If you are using a MFJ with your Commodore, the MFJ will connect directly to the TTL port on your computer. See the MFJ manual for pin outs.

Check your terminal program that you will use for the baud rate and parity. The baud rates and parity must match exactly on both the TNC and the computer. When you have both set correctly, fire up the computer and the TNC. You should then see the TNC sign on message if all is correct. The first time your TNC is turned on, there is no call entered in the call sign field, also called the "MYCALL" field, at the "cmd:" prompt enter:

MYCALL XX4XXX (substitute your call for the X's)
The TNC will come back:
MYCALL was NOCALL
cmd:

You are now ready to communicate!

But wait! There is one more step! Wire the radio to the TNC according to your TNC manual and your radio manual. There are only 4 wires to connect. Ground, PTT, mic audio,

Continued on Page 11

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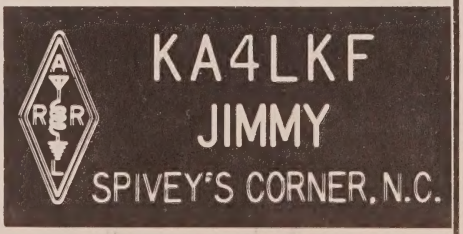

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PACKET RADIO

Packet For the Beginner

Continued From Page 10

receive audio. If you have ever hooked up a phine patch for HF, you have this licked! You are now ready to communicate.

There are 3 modes in a TNC, Command, Converse, Transparent. The Command mode is the mode you talk with the TNC to enter your call sign and to enter other parameters and to coneect and disconnect. The Converse mode is the mode in which you talk to others on the air. The Transparent mode is used primarily when you are transfering files. This mode is not used very often. So, sitting in the Command mode we want to connect to are friend Joe, KC4QTH. We enter the following:

C KC4QTH.

We see on the screen:

cmd: C KC4QTH

cmd:

We see the transceiver transmit and then see on the screen:

cmd: C KC4QTH

cmd:*CONNECTED to KC4QTH**

The "C" is short for the word "Connect" followed by the call of the station we wish to talk to. When we make contact, the TNC tells by using the 3 asterisks and the words "CONNECTED to" followed by the call that we are talking to our friend Joe. We then type anything we wish and it will be sent over the air. When we are finished talking, we enter.

C (control key and the letter C together) and we see:

cmd:

This tells us we are back in the Command mode and we then enter "D", short for disconnect and we see the following:

cmd: D

*****DISCONNECTED**

We have made our first Packet QSO! See it was not that hard! But there are other things to do also. Packet has repeaters the same as FM voice. These repeaters are called "digipeaters" or "digi's" for short. These digi's can link together, since all operate on the same frequency and take our packet many hundred miles. There are two ways to digipeat. We will look at the easiest first. It is call "via". Lets say you have a friend in the next town and there is a dedicated digi, (all packet stations can be digipeaters while not interfering with normal communications) between the two towns. The call of this digi is KC4QSL-1. You can connect to your friend in the following manner:

cmd: C KC4QSO via KC4QSL-1

You have told the TNC to first look for digipeater KC4QSL-1 and tell it to pass the message you want to talk to KC4QSO. It does so and KC4QSL will ack or acknowledge that it is there. You then carry on as before. This "ack-ing" is the secret to Packet's ability to have error free communications. A special checksum number unique to that packet is sent along with it. When the packet reaches its destination, a mathmatical is used to see if the two numbers match. If they do, an "ack" is sent saying that the packet was received correctly. If the numbers doe not match, than a "nack" is sent saying that the packet was not received correctly and please resend it. Your TNC will then resend the packet and will do this until the checksums match. You can link up to 7 digi's using the "via". The "via" is used just once though and all call signs after are just separated by a space or a comma. You have have a line that looks like this:

C KC4ZZZ via KC4QSL-1 KC6TYQ-3 PKE KC2TI-9

You will notice that one of the digi's does not use a call. This is called an "Alias" and can be used to digipeat instead of using the call sign. The letters denote the location of the digi and usually are the airport identifier letters, for example, RDU-Raleigh, GSO-Greensboro, CLT-Charlotte. Most all digi's use alias' along with the call. Using alias' cuts down on the operator typing and gives some idea where the digipeater is located.

The second method is by using a networking digipeater or "node". Most digi's are networking nodes and either of these ways will get you connected. This second way is called "Net/Rom". Net/Rom is really a trade name for one type of networking software that is very popular at this time. With Net/Rom, you connect to your local node by either the call or by the alias. You then tell it where you want to go and it does all the work. Net/Rom is a little involved and above this beginners text.

Be looking for other articles in the future on Net/Rom and Bulletin Board or BBS operations.

FCC Ft. Lauderdale

The FCC office in Ft. Lauderdale, Fl. has relocated to Vero Beach. Their new address is: FCC, P.O. Box 1730, Vero Beach, Fl. 32961-1730.

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Power To Go

— by Gil Frey, Jr. K4JST

One problem that all ARES members are sure to face is having to install a full sized mobile rig in someone else's vehicle. A quarter wave mag mount takes care of the antenna problem, but what about power? A cigarette lighter adapter is handy, but that can create problems. The last bike race I worked, the cigarette lighter was in use powering a tape recorder for one of the race officials. If you ever have to travel in a state or federally owned vehicle, don't expect to even find a lighter jack. A long patch cord with alligator clips may allow you to hook on to the vehicle battery under the hood, but even that can be a real problem as some of our ARES members found when they had to b dispatched in National Guard vehicles: 24 volt systems!

The best solution is to bring your own battery along. The problem is finding a suitable battery that is both large and small enough plus fully safe. Over the years, I have tried and discarded several types of ARES batteries. The first was a motorcycle battery. This was small enough, but it did need to be kept upright. The real problem was that this style battery does not have much capacity (despite its weight) and is extremely prone to damage to the plates if you discharge it very much below full charge. I tried two of these and both lasted less than a year (they were brand new Sears Die Hard motorcycle batteries). The next battery I tried was a deep cycle lawn and garden battery. This battery had about 30 amp hr capacity and withstood heavy discharge. The problems with it included having to special order it (the common lawn and garden battery is not deep discharge), high cost (over $55), weight (about 25 lbs.) and a very real risk of spilling batter acid if tipped over. I got about two years use out of this battery. The next battery that I used was a 25 amp hr Gell cell. All Gell cells are deep discharge construction. They are totally sealed (though they can vent gas under heavy charging) and of course, they can not spill electrolyte. The problem is finding a suitable size/weight/source/price. The 25 amp hr battery is a little too big and heavy (20 lbs.) to be easily carried around and at $50, just a little expensive for occasional use. The big problem is where to purchase. I can tell you that the local burglar alarm shop is not the place to look. I have seen 1.2 amp hr gell cells listed at $35 in catalogues (think the burglar would do well to start stealing batteries at that price). Buying used gell cells at a hamfest is an exercise in frustration (they may take a charge, but will they hold one?). I am still using the 25 amp hr gell cell aftr three years, but would not buy another one even if I knew where to get one.

I do think I have found the ideal ARES battery. It is a 15 amp hr gell cell made by Yuasa. It is tall and slender so it should fit into a case that you could carry with a shoulder strap. The terminals are large rugged bolt style (no flimsy clip to corrode or break off) and the weight is 13 lbs. (that is why I mention the shoulder strap). The really nice surprise is the price ($24.95). The source is American Design Products, 62 Joseph St., Moonachie, NJ 07074, 800-524-0809. They ship quickly. If you need a cell to power your TNC or some other small piece of equipment, they have a 4.5 amp hr cell for 7.95.

How do you charge a smali gell cell? A half amp or one amp motorcycle battery charger works just fine (as low as $6 in the auto parts shops). If you want to float charge (ie use it and charge it at same time), the smart charger described in June 87 QST (board and chip available for $15) makes a good winter construction project.

The "2400" Foot Tower

— by Keith Chambers, Sr., W8SSA

One day last Fall, I was tuning across the bands and I heard the following story during a QSO that will go down in my log book as an all-time classic. The subject of the QSO was about maintaining amateur radio towers and the story went something like this.:

"Well, I climb towers for a living and normally I enjoy it but today has been one of those days that I should have stayed in bed", said Lou. "What happened?", asked Joe. "Well", said Lou, "Today I had a tower light out on the top of a 300 foot stick. It looked like a routine job, so I belted up, put a new light bulb in my bag and climbed (First trip-300') to the top of the tower only to find that the socket was bad. So, I climbed (2-600') back down to the truck and got a new socket and climbed (3-900') back up again.

While I was replacing the socket, I heard a crack of thunder and felt a few raindrops. I tied off the bag with the bulbs and started down (4-1200') the tower as fast as I could. About half way down a strong gust of wind shook the tower. I looked up just in time to see the bag come untied, out came the bulbs and down they came right over my head at about Mach 2. I ducked inside the tower as they whizzed past. Just about the time they hit the ground, the rain came down in buckets and soaked me to the bone.

After the rain, I climbed, dripping wet, (5-1500') back up to the top again with a new bulb and finished replacing the bad socket. Then I discovered that the new bulb was bad! My patience was wearing pretty thin at this point but, anyway, I climbed (6-1800') back down for a new bulb.

Up to the top (7-2100') again, I screwed in the new bulb and it finally checked out ok. Pleased with myself tht I had outlasted the darn thing, I started back down (8-2400') the tower for the last time, wet, cold and hungry. I looked down and saw that I had left my lunch (in a paper bag) on the hood of the truck. I'll tell you, Joe, that ruined my day. There ain't nothing worse than climbing 2400 feet straight up and down all morning and then having to eat soggy sandwiches for lunch!"

So, whenever you think you've got troubles climbing your little 30 foot backyard tower just be glad it isn't 300 feet tall.

Dayton Hamvention 1988 Award Winners

The 1988 winners of the Dayton Amateur Radio Association, Hamvention awards were passed out at the convention last week.

The AMATEUR OF THE YEAR was presented posthumously to the late William H. Bennett, W7PHO. of Seattle, Washington. Bill was credited with starting several well known nets, and was influencial in getting ARRL to start an outgoing QSL bureau.

The DARA ACHIEVEMENT award went to Lew McCoy, W1ICP, Silver City, N.M., for his many years of technical writing, experimentation and lecturing.

The SPECIAL ACHIEVEMENT award was given to Fred Hammond, VE3HC, of Guelph, Ontario, Canada. Fred was recognized for his work in getting amateurs from mainland China on the air, and helping start, and support DX stations in Jamaica.

FCC News Briefs. . . . .

received via W5YI Report and ARRL Letter

Part 97 Rewrite Of The Rules

— Condensed from ARRL Letter & W4YI News

A so-called "Part 97 rewrite" is in the works at the FCC. In March the commission acted to establish PR Docket 88-139, a proceeding which looks toward the modernization of the rules governing Amateur Radio. A Notice of Proposed Rulemaking will be issued shortly.

The new proposal is said to be an 87-page document. Comments will not be due until August 31.

Amateur rules have not been redone since 1951. The technological advances and operational changes since then, requiring rule changes have resulted in a patchwork quilt of rules that is often confusing, particularly to the prospective licensee.

Some of the changes we might expect, according to the FCC will be greatly simplified references to emissions. There are some 1,300 ITU designators. The new Amateur rules will combine them into nine general emission terms, such as "CW", "Phone", "RTTY", "Data". . . etc.

Some other longstanding interpretations will be clarified in the new rewrite, such as the legality of Swap Nets, Amateur's functions in disasters, Supporting Public gatherings such as "walk-a-thons" and a "rule of reason" for news gathering.

Also in the new rules will be the philosophy that Amateur frequencies are shared equally by all, FCC inspection circumstances, and call signs that are "self identifiers."

Some rules which might be eliminated in the rewrite would include: The entire section governing alien operation, Amateur satellite service rules (which repeat the International Radio Regulations); Prohibitions agains damaging radio apparatus, and requirements that examination papers be retained by volunteers for a specified period.

It is much too early to draw any conclusions as to what effect the Part 97 rewrite will have on Amateur Radio, until the documentation is officially released.

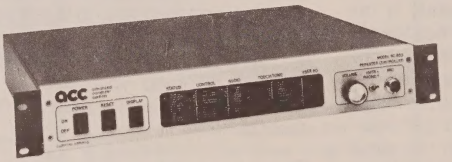
Part 15 Rewrite

The FCCs proposed rewrite of its rules governing unlicensed low power communications devices is receiving opposition from SWLs, hams and a variety of industry organizations.

The ARRL argued that the proposed changes would have an adverse impact on operations in the Amateur service. Greater levels of interference from an increased number of devices, would be experienced by Amateur stations from MF through UHF.

The Association of North American Radio Clubs (ANARC) - a SWL group was quite disturbed by the proposed rules rewrite, which they said would ruin reception of international broadcasts. Proliferation of household devices emitting higher levels of HF radiation will inevitably raise the RF noise floor, and increase the density of unwanted signals.

The Land Mobile Radio Section of EIA said that adoption of the proposal would drastically increase the potential for harmful interference to land mobile operation, such as police, fire, ambulance and other public safety operations.



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The RC-850 controller offers your group the most advanced repeater control technology available anywhere. Through ongoing hardware and software enhancements, even our first customers enjoy new features that keep it ahead of the pack. With the '850, your repeater becomes fully remotely programmable. From command codes to the repeater's operating schedule, virtually everything can be easily changed. Touch-Tone programming from your radio or the phone with synthesized voice readback, or programming from your home computer via modem or packet.

The autopatch supports local and radio-linked remote phone lines, extending your patch coverage to match your RF coverage. You don't even need a phone line at your site! The 250 autodial slots meet everyone's needs, with up to 35 digit storage for personal MCI/Sprint codes.

The easy-to-use mailbox lets you include phone numbers, times, or frequencies in messages. The controller is so smart, it'll leave you a message if you miss a reverse patch or an alarm.

Selective call capabilities range from CTCSS and two-tone to display paging, so you can always be available without having to listen. Voice response telemetry lets you remotely meter your site. Its continuous measurements with storage of updated min and max readings let you find out how cold it gets, how high the reflected power reads . . . and when.

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UPS, FCC & 220

Although they were six months late in filing comments, the FCC allowed United Parcel Service to file proposed comments in Docket 87-14. The FCC said in accepting the comments, they wanted a complete record of everything possible before making a decision.

UPS said in their comments that they employ over 200,000 people, maintain a fleet of more than 50,000 delivery vehicles and 100 airplanes, with sales of $9.5 Billion.

Further UPS proposes their plan, if the 2 lower mhz of the 220 band awarded to land mobile use, to set up a nationwide network, linking their delivery trucks, over the road trucks, planes, depots, and offices together with a massive ACSB (amplitude compandored side band) network.

SEA, Inc. has been placed under contract by UPS to provide them with ACSB radio technology according to the document. SEA, Inc. has also filed an "ex parte" presentation on behalf of UPS to the FCC.

The ARRL has filed a motion against acceptance of the late filing on grounds that besides being six months late, UPS had not given other commenters the opportunity to respond to the UPS proposal.

(Editor's note: ould this be the beginning of the beginning. If they take away the lower 2 megaherts of the 220 band which has been almost out of our hands, and give us primary allocation of 222-225 mhz, we just might win in the long run, so I have been told by people who seem to be in the know on spectrum management. As you know, 220 mhz has been only secondary allocation to Amateur until 2 years ago, then it was put on hold for future allocation – to whom we were always afraid to ask. So losing 2 mhz. might not be so bad, if we get 3 mhz permanently. At the risk of being called a traitor, I'll stop right there. - I guess I'm being realistic and can read the handwriting on the wall).

No Code Denied

The FCC has denied the petition of Ben Johnson, NYOD requesting that the Morse code requirement be removed from the Novice and Technician Class, making them "no Code" licenses.

The FCC said ITU treaty obligations required that amateurs using telephone frequencies below 30 mhz be proficient in morse code.

FCC Timetable

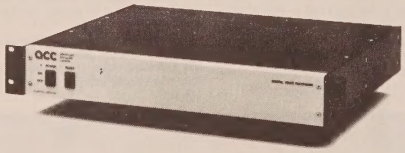
It was reported in early April that FCC Gettysburg was taking 4 to 6 weeks for processing of new Amateur licenses, instead of the normal 3 to 4 weeks.

More than likely, as you read this, the delay has increased beyond 4 to 6 weeks, based on history.

O.V.H. Hamfest

Virginia: (Manassas, Sunday, June 5, 1988.) The Ole Virginia Hams present the Annual Manassas Hamfest and Computer Show at the Prince William County Fairgrounds 8 A.M. - 4 P.M. General Admission $5.00, children under 12 admitted free. Tailgating $5.00 per space in addition to general admission. AMPLE ROOM OVER 25 ACRES. Special activities include YL Program, ARRL Booth, and CW proficiency Awards. Breakfast, Lunch and refreshments at moderate prices. Talk-in on 146.37/97, 146.52. Dealers, Manufacturers indoor exhibit spaces available. Contact Joe Schlatter, K4FPT-703-368-8599 (evening) or Randy Moler, KA4UFF 703-791-3061. For information write: Ole Virginia Hams, A.R.C., P.O. Box 1255, Manassas, Va. 22110 or call Jack Gunsett, KI4VP 703-361-5255.

"The Digital Voice Recorder echos your thoughts"



ACC's Digital Voice Recorder allows you to remotely record your voice over the air using digital storage in its huge memory array. PCM recording results in the highest possible fidelity, so you're proud of how it sounds on your repeater.

The DVR's voice mailbox gives your repeater users computer bulletin-board like capability from any radio with a mic and Touch-Tone pad. With messages stored in voice, your users don't need special gear to enjoy the latest in communications technology (from anywhere).

Your repeater's IDs and other messages can consist of remotely recorded DVR audio tracks which can provide information to your users – about your system, club, meetings, and special events. And you can make your repeater the friendliest around. With its no-compromise high quality PCM digital audio processing, even famous celebrities can sound like they're live at your repeater site!

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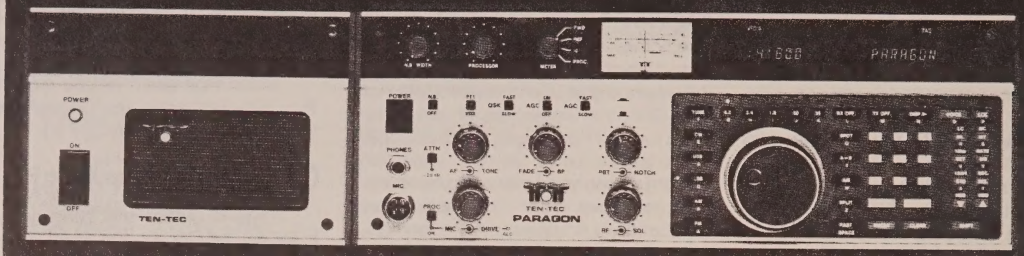

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PARAGON HF TRANSCEIVER, Model 585

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Sixty-two programmable memories that include frequency, mode, filter selected, channel number and a 7 digit alpha-numeric tag for entering a net name, call sign or I.D. of your choice. As the memory channels are scanned, all of the information is displayed (what a light show!) and the receiver automatically sets up mode, filters, tag and frequency as stored in each channel. Channels scanned are totally controllable with global lock-out, global reset and individual lock-out and reset

Frequency Range: Receive: 100 kHz to 29.9999 MHz. Transmit: 1.6 to 29.9999 MHz.
Frequency Control and Readout: Microprocessor controlled digital PLL synthesizer. 10 Hz resolution.
Frequency Stability: Worst case, 1 PPM per degree C. at 29.999 MHz.
Frequency Accuracy: ± 100 Hz @ 25 degrees C.
Tuning Rate:

	Normal	Normal Shifted
CW/USB/LSB/FSK	10 Hz 4.8 kHz per turn	20 Hz 9.6 kHz per turn
AM/FM	50 Hz 24 kHz per turn	100 Hz 48 kHz per turn
	Fast	**Fast Shifted**
CW/USB/LSB/FSK	20 Hz 9.6 kHz per turn	50 Hz 24 kHz per turn
AM/FM	100 Hz 49 kHz per turn	500 Hz 240 kHz per turn

Antenna Impedance: 50 ohm unbalanced.
PC Boards: 14 double-sided, 9 single-sided .062" glass-epoxy.
Power Required: Receive = 1.5A. Transmit = 20A. 12 - 14 VDC.
Dimensions: HWD 5¾" x x 17". 14.6 x 27.3 x 43.2 cm.
Net Weight: 16 lbs. 7.25 kg.

Modes: USB & LSB (J3E), CW (A1A), FSK (F1A); FM (F3E) optional (Model 256).
DC Power Input: Maximum 200 watts.
RF Power Output: ALC stabilized, adjustable, 10 to 100 watts (into 50 ohms) with front panel RF OUT control.
Microphone Input: Low impedance, bias voltage for electret provided.
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CORRESPONDENCE REPORT: Keith Chambers, Sr., W8SSA, formerly of Canton and now at Reynoldsburg, Ohio, submitted material for this issue. Keith also says he's sent the item, "The '2400'-foot Tower," to his local repeater newsletter in Columbus and to his radio club back in Canton. It's so good I didn't change a thing and just forwarded it intact with my material to the Journal Editor for him to use as space warrants. You'll probably find it printed elsewhere in this issue.

• • • •

West Virginia state trooper Rick Gillespie, N8HON, Franklin, WV, who provided information and pictures of the plane crash story and on the facilities change on Spruce Knob repeater, both in the Nov. 1987 issue, wrote to tell me hams in his area have worked another plane crash on Feb. 21, 1988. That story is also a separate piece submitted for this issue.

• • • •

David Taylor, KA8QYU, Huntington, WV, wants me to be sure to mention the West Virginia Special Olympics Summer Games coming up June 3rd through the 5th at Marshall University. As Director of Communications for the event David says he can use the services of any and all interested hams. Most will be needed during the day but a few can be used between 10:00 p.m. and 6:00 a.m. to help patrol the dormitories.

David wrote to say they will also be needing help with the Torch Run which will begin at New Martinsville and run through Morgantown, Beckley, and Charleston and end up at Huntington. This column will appear in the May issue so if you can give an assist, contact Dave at 2838 Thornburg Road, Huntington, WV 25705. Or call him at 304/525-7691.

• • • •

Charles E. "Skip" Hall II, K8SOR, has filed suit in Kanawha Circuit Court for $1.9 million against Charleston, WV, city officials and the firm responsible for the fireworks display at the city's annual Sternwheel Regatta Festival held on the Kanawha River over a ten-day period leading into Labor Day.

Skip, who was a volunteer communicator during the display and was stationed on a barge in the middle of the river near the city levee, claimed negligence by the defendants who, he claimed, failed to halt the display for a safety check after many shells failed to fire at the onset of the show. Hall was struck in the face by a "golf ball size bullet" of burning white phosphorus when a 16-inch diameter fireworks shell misfired.

• • • •

The April issue of the Triple States Radio Amateur Club's B-N-T newsletter is full of information about the upcoming 1988 Wheeling Hamfest and Computer Fair set for Wheeling Park, Wheeling, WV., on Sunday, July 17. It's the tenth year for the growing Wheeling affair. The ten year theme is featured, with promises of ten major prizes, ten attendance awards, 10-minute door prizes and ten "Earlybird" prizes.

• • • •

OTHER UPCOMING HAMFESTS: Bluefield, WV, on Sunday, May 8 at the Bluefield Youth Center on Stadium Drive next to Mitchell Stadium. Talk-in on 145.49 repeater. Flea market inside and tailgating outside. Doors open at 9:00 a.m. and close at 4:00 p.m. Volunteer Exams by the Bluefield Volunteer Examiner Team at Bluefield State College in the Basic Science Building at 9:00 a.m.

Roanoke, Va. hamfest on Sunday, May 29.

WEST VIRGINIA NEWS

— Compiled and edited by Ted Wolfe, WD4KHL

Send your newsworthy items from West Virginia directly to Ted to be included in this column. Address: P.O. Box 133, Cabin Creek, WV 25035. (304) 595-3970. Also KA8ZXP, Clarksburg or WA8USO, Ravenswood Packet BBS. Allow 1 week prior to regular Journal Deadlines for inclusion in current issue.

• • • •

Kudos to Don Williams, WA4K, editor of the **East River Current,** publication of the East River Amateur Radio Club, Inc., Bluefield, WV, which was notified on March 15th by ARRL Roanoke Division director Gay Milius, Jr., W4UG, that it had won the 1987 Newsletter Competition in its class in the Roanoke Division, ARRL. The **Current** competed in the 100-to-50 member club newsletter class. The judge for the 1987 competition was Ed Tanton, N4XY.

The ERARC has transferred the building and structure at the Dismal Peak site in Giles County, Va., to the Dismal Peak Repeater Society, Inc. The agreement was signed by Boots Walters, KA8BNY, and Tom Mallory, N4AZJ, the presidents of the two organizations.

The DPRS has submitted application to the US Forest Service and expects an approved lease within a short period of time.

The Dismal Peak repeater on 147.735/147.135 is at an elevation of 4,150-feet and has coverage from Bluefield to Roanoke and Beckley to Mt. Airy, NC. More on a digipeater on the site in my packet wrapup.

• • • •

SILENT KEY: John VanderVoort, N8EHB, Belle, WV, in late March. John was a retired chemist with the DuPont Company Belle plant.

• • • •

PACKET ITEMS: The Putnam Amateur Radio Association's second packet digipeater does not carry the K8SLI call of the other club sponsored activities. The K8SLI call is on the PARA 147.87/147.27 voice repeater at Scott Depot (LISTED AS A CHARLESTON-HUNTINGTON repeater), and on the 144.81/145.41 Liberty, WV, voice repeater, and K8SLI-1 is the digi co-located with the 147.27 repeater on the Putnam Emergency Services tower. Roscoe "Pete" Peters, a Hurricane businessman is K8SLI.

PARA's second digi, with an antenna on one of the area's TV broadcast towers, carries the call of Frank Martin with the dash-one SSID, that is, WA8VRS-1. It also carries the alias of HTS.

• • • •

Terry North, WB8IFS, has put another digipeater on the air. It is WB8IFS-3, alias BEE, on Bee Mountain near Marmet in Kanawha County. His mountain top home station in Charleston is WB8IFS, aliasCRW.WB8IFS-2 or NOBE is located near Grantsville. A combination of CRW and NOBE or BEE and NOBE provides a good North-South path down through the center of the state and affords a good, hence busy, pathway to the KA8ZXP bulletin board at Clarksburg via the NCWV Net/Rom node.

• • • •

The Logan WB8FQJ-1 digi was down for a time and was sorely missed. It is a vital hop on many paths South from Charleston. It has been returned to service with the promise of other Logan area hams assisting with maintenance. We all hope it will remain operational.

• • • •

There has been some discussion but no decision yet on putting a digipeater on Lick Knob. Some hams have tried to talk Charlie, WB8CNN, in the Beckley area into putting his there. But problems remain to be worked out before that becomes a reality. Lick Knob would be a fine site but for another on 145.01 Mhz?

• • • •

We need to start moving some activity off 145.01 onto local area nets on other frequencies. But that takes time, planning and money. I can't report on any progress toward a backbone system in West Virginia for I haven't heard anything about any movement in that director.

• • • •

New club officers are to be elected at the May meeting of the Jackson County Amateur Radio Club, Inc., at Ripley. Also arrangements are progressing for the club sponsored Hamfest now scheduled for Saturday, Aug. 13, 1988 at the Reserve Training Center/Armory. The previous site at the County Farm was not available to the club on the date they wanted it. Bob DeHart, N8GKJ, is chairman of the 1988 Hamfest. Plans are being developed to offer volunteer exams during the event.

And, incidentally, the JCARC's "Loud 'N Clear" newsletter edited by Bob Morris, WA8CTO, placed FIRST in its class (clubs with less than fifty members) in the Roanoke Division's club newsletter competition.

The April edition of that newsletter reports that retired NBC newsman Roy Neal, K6DUE, who produced several amateur radio videotapes, has moved into the ARRL's Roanoke Division. Roy now lives in High Pont, NC. Roanoke Division director Gay Milius has appointed Roy an assistant director.

• • • •

Also there was this reminder -- the West Virginia State Convention and Hamfest will be held this year on Saturday and Sunday, July 2 and 3, at the State 4-H camp at Jackson's Mill.

• • • •

And lastly, buried under my other notes for the column, I found a flier from TARA, the Tri-State Amateur Radio Association at Huntington, WV. It's for their HAMFEST '88 to be held on Saturday, Oct. 1, 1988, at the Huntington Civic Center, 9:00 a.m. to 4:00 p.m. Everything inside rain or shine, with ample parking available, plus prizes and forums. Talk-in will be on repeater 146.16/76.

SERA Board Makes Minor Changes In Election By-Laws

As had been previously discussed by several Board members, a proposal was made to the Board on March 4th, 1988 for certain changes to more realistically depict the election process in the SERA By-Laws.

The main changes dealt with allowing more time from nominees to elections, and the balloting, which previously had been almost humanly impossible to maintain a schedule within reason.

The By-Law changes were drafted by Ray Adams, N4BAQ, Treasurer and dated March 4th. The board was to make their desires known concerning the changes 30 days later, or after April 4th.

The By-Law changes include:

(1) No full member may be eligible to cast more than one vote in any election process by virture of being named a full member representative of more than one repeater.

(2) No full member may be permitted to participate in the election process in any manner including but not limited to nominating a candidate or casting a ballot if the full member operates an uncoordinated or a decoordinated repeater as defined in our coordination policies and guidelines, nor shall he be eligible for any office whether elected or appointed within SERA.

(3) No full member may be permitted to participate in the election process in any manner including but not limited to nominating a candidate or casting a ballot if the full member serves in an elected or appointed position within any other coordinating entity, nor shall he be eligible for any office, either elected or appointed within SERA.

(4) (a) In the election process, no nomination "from the floor" will be considered valid unless it be accompanied by a written statement from the candidate so nominated accepting the nomination.

(b) Ballots must be mailed to the full members no later than December 4th.

(b) Ballots must be postmarked back to the Secretary no later than December 14.

(d) Ballots will be counted between December 20 and December 22.

(5) No full member shall be eligible to vote unless he was a member in good standing on or before July 1 preceeding the election for either officers or directors.

Adams said this defined the election process and answered several questions that have come up over the past few years.

The new By-Law changes are effective immediately.

New Look!

You may have noticed something a little different in this issue of the Journal. We have changed typefaces in the body type throughout the book.

The new typeface is the same we were previously using for the story headlines, and for the "ramblings" columns from State Directors.

We decided that even though few magazines use a face like this in body type, it was much cleaner and easier to read than the old typeface, so we switched. We did go a size larger than was being used for the Directors Columns.

We hope you like it!

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SERA will not be responsible for incorrect or omitted listings. The responsibility of correct listings are those of the actual repeater owner or sponsor. We make every effort to keep the index as accurate as possible with information provided. The SERA Repeater lists contain certain repeaters which are NOT Coordinated, or not operating according to recognized frequency utilization plans. SERA does not necessarily condone, or recognize such repeaters as being legal or illegal. They are listed in our indexes primarily to keep our readers informed of all repeaters known in the areas served by SERA.

Repeater owners are reminded to contact their local Frequency Coordinator (Director) for assistance in coordination, changes in their listings, or any other requirements.

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The By-City Index Appears On Following Pages

2 METERS

7.43 /4.93	M	LYNCHBURG	VA
4.51 /5.11	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	RXG	SAURATOWN MT	NC
	JMT	CONWAY	SC
	UL	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIFTON	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HODGES	SC
	OAK	LAFOLLETTE	TN
	VL	GALAX/LKOUT MT	VA
	FHE	BUCKHANNON	WV
4.55 /5.15	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA	GA
	LJ	MILLEDGEVILLE	GA
	UDS	MORENTH/HI PK	NC
	CVM	RANDLEMAN/GBO	NC
	RJC	DECATUR-PONE KB	TN
	HCK	FRANKLIN	TN
	JE	JAMESTOWN	TN
	JXI	MEMPHIS	TN
	ARO	PETERSBURG	VA
	DBN	MARMET/BEE MT	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	JBF	COOLIDGE	GA
	DIW	JONESBORO	GA
	ZQB	NEWTON/ANDSN MT	NC
	EKK	OXFORD	NC
	V	LOUDON	TN
	LHO	SMYRNA	TN
	DKL	BOLT/BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM(AL)	GA
	ULJ	PINE MT/HAMILTON	GA
	BVW	MT MITCHELL	NC
	OTT	CARTHAGE	TN
	XX	JASPER	TN
	B	RICHMOND	VA
	JGY	WHEELING	WV
4.61 /5.21	U	DEAN	EKY
	PSZ	TYRONE	GA
	ITL	TRENTON	NC
	NEP	GASTON	SC
	BBB	KNOXVILLE	TN
	MS	KILMARNOCK	VA
	FEQ	HUNTINGTON	WV
4.63 /5.23	PPM	MIDDLESBORO	EKY
	COL	AUGUSTA/GRNS CUT	GA
	JEH	CONYERS	GA
	UJ	DALTON	GA
	COL	WAYNESBORO	GA
	BFB	CHARLOTTE	NC
	RA	LAVERNE	TN
	DBB	BEDFD/APL ORCH	VA
	UMI	YORKTOWN	VA
	K	LOGAN/BLAIR MT	WV
4.65 /5.25	BLQ	CLAYTON	GA
	BZJ	DALTON	GA
	KQK	FOREST PARK	GA
	AZM	GREENSBORO/GLD H	NC
	URP	CHARLESTON	SC
	DRL	MEM/FISHERVILLE	TN
4.67 /5.27	PN	WALESKA/PRLGMT	GA
	KNI	HENDSVL/BERWLW M	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVILLE	TN
	CJX	SEV/SHIELDS MT	TN
	JCE	MANASSAS	VA
	VR	WYTHEVILLE	VA
	OQ	CRAIGSVILLE	WV
4.69 /5.29	KCN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	BFB	CHARLOTTE	NC
	ACP	MAYODAN	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SQC	HOLSTON MT/E TN	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
	FMD	CHARLESTON	WV
4.71 /5.31	CEK	COLUMBUS	GA
	JDR	STOCKBRIDGE	GA
	ITL	ROANOKE RAPIDS	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN MT	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR MT	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND CTY	TN
	TAG	HICKORY VALLEY	TN
	TEM	KNOXVILLE	TN
	OQI	FARMVILLE	VA
	VNQ	PARSONS	WV
	FR	WILLIAMSON	WV
4.75 /5.35	R	HARLAN	EKY
	DOC	ATLANTA	GA
	FGQ	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AQD	FALLS CHURCH	VA
4.77 /5.37	UA	AUGUSTA	GA
	ACH	COLUMBUS-RTTY	GA
	IZF	JASPER	GA
	AGN	N. WLKESBORO	NC
	GRC	KNOXVILLE	TN
	CBF	MT JULIET	TN
	IMI	GLOUCESTER	VA
	FWL	BECKLEY/EOC	WV
4.79 /5.39	HYB	GRIFFIN	GA
	NJ	MONROE/UCARS	NC
	TZ	CHATTANOOGA	TN
	EPC	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	VM	STANTONVILLE	TN
	ZIV	GALAX	VA
	EOM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	PXX	BRUNSWICK	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	VIP	MEMPHIS	TN
	FHE	BUCKHANNON	WV
	SLI	CHARLESTON/HTGN	WV
4.83 /5.43	LCI	ATLANTA/SWEAT MT	GA
	VBA	LINEVILLE(AL)	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN MT	NC
	HWU	COLUMBIA	SC
	UCE	COOKEVILLE	TN
	IUA	KNOXVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	STONE MT	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	LWY	ALCOLU	SC
	SIR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	ATLANTA/SWEAT MT	GA
	GC	SAURATOWN MT	NC
	OXE	INMAN	SC
	GBI	KNOXVILLE	TN
	OMO	MOUNTAIN CITY	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LICK KB	WV
4.89 /5.49	JA	AUGUSTA	GA
	RWS	CORDELE	GA
	OPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALLACE	SC
	KKO	MOMNVL/SHT MT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	OHX	NEWPORT NEWS	VA
	MOP	BLUEFIELD	WV
6.895/6.295	T	HARTWELL	GA
6.01 /6.61	MLE	COLUMBUS	GA
	BDP	WARNER ROBINS	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS HD	SC
	JMT	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	LSP	BRUMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
	MZI	GASSAWAY	WV
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	QWK	LAURINBURG	NC
	GBI	KNOXVILLE	TN
	ZQX	MARTIN	TN
	AVW	NEW MARKET	VA
	BZS	FLAT TOP/WINTERP	WV
6.04 /6.64	YZY	PINEVILLE	EKY
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVILLE	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALEM	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	KQQ	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	QEY	RICHMOND	VA
	EZR	HUNTINGTON/CHAS	WV
6.055/6.655	NFP	ATLANTA/MARIETTA	GA
	CEB	CONCORD/KANNAP.	NC
	VTX	ELIZABETH CITY	NC
	ABU	BROWNSVILLE	TN
	Z	CHATT/SIGNAL MT	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	ILW	BRISTOL	TN
	BGW	LAFOLLETTE/WMT	TN
	NTM	NASHVILLE S.W.	TN
	HZS	BARREN SPRINGS	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	IQT	LEEDS(AL)	GA
6.085/6.685	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	PIO	LENOIR CITY	TN
	Q	WAVERLY	TN
	JNC	DANTE	VA
	HTA	VIENNA	VA
	FMD	CLARKSBURG	WV
6.10 /6.70	JO	GRAYSON	EKY
	MM	ALBANY	GA
	OOM	JASPER	GA
	DOJ	MILLEDGEVILLE	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UOT	MANCHESTER	TN
	UFT	MEMPHIS	TN
	YQM	UNION CITY	TN
	WQS	DANVILLE/WHT OAK	VA
	BHH	DUFFLD/POWLL MT	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREEK	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXE	STERLING	VA
	GL	SHERRARD	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	NC	ATLANTA/SWEAT MT	GA
	TVE	BRUNSWICK	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	BJY	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	VZ	LEBANON	TN
	DAZ	MEMPHIS	TN
	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE DEE	SC
	HF	DYERSBURG	TN

Continued On Next Page

REPEATERS BY FREQUENCY

	QOJ	ROANOKE/POOR MT	VA
	FMD	ELK GARDEN	WV
6.16 /6.76	BOC	ATLANTA/STONE MT	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PISGAH	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	PTC	FT JACKSON	SC
	LSP	BRISTOL/HLSTN MT	TN
	POP	NASHVILLE	TN
	TFZ	CHARLOTTESVILLE	VA
	STE	LYNCHBURG	VA
	ZIN	WILLIAMSBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RTTY	NC
	DHW	ELIZABETHTOWN	NC
	JVO	PULASKI/MUS MT	TN
	MUQ	WYTHEVILLE	VA
6.19 /6.79	U	PAINTSVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA
	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS MT	SC
	ILT	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	ABR	JOHNSON CITY	TN
	FZJ	MEMPHIS	TN
	SOE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	NNE	GUTHRIE	EKY
	LT	MILLEDGEVILLE	GA
	EWG	FAYETTEVILLE	NC
	NOQ	GASTONIA	NC
	NNE	GUTHRIE (TN/KY)	TN
	HTI	COVINGTON	VA
7.405/6.805	AQS	CALHOUN	GA
	HCY	MAGGIE VALLEY	NC
6.22 /6.82	MM	ALBANY	GA
	DOC	ATLANITA	GA
	HAO	LYONS	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS MT	SC
	U	ST. MATTHEWS	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	UEW	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
6.235/6.835	OCB	THOMPSON	GA
	QCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BODIE	NC
	IAT	WADESBORO	NC
	DCX	GRUNDY/BIG A MT	VA
	ECM	RICHMOND	VA
7.435/6.835	BPV	HIGH POINT	NC
6.25 /6.85	IKA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	HON	WARNER ROBINS	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT. MT	NC
	YFT	REIDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	LGTLBG/COVE MTN	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BECKLEY/FLAT TOP	WV
	L	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BIG KNOB/GREY CT	SC
	G	FAYETTEVILLE	TN
7.465/6.865	ZRS	WAXHAW	NC
	MZ	MOUNTAIN LAKE	VA
6.28 /6.88	U	MAYTOWN	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	QUITMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	CQV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	KXV	VIRGINIA BEACH	VA
6.30 /6.90	ACN	JASPER(AL)	GA
	SP	FAIRMONT	WV
6.31 /6.91	GFY	MOREHEAD	EKY
	FOW	CLEVELAND/LONG	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY MT	NC
	YZF	FAYVLLE/CFARS	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	DQU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	AXH	CHASE CITY	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD KNB	VA
	FMD	TYSONS CORNER	VA
	ULB	MCMECHEN	WV
6.325/6.925	ASI	COVINGTON	GA

	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVILLE	VA
	GJG	DANVILLE(DCC)	VA
	OGY	PRINCETON/PIPEST	WV
6.34 /6.94	SN	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME/MT. ALTO	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO/WANCHESE	NC
	ZAS	MT AIRY-RTTY	NC
	IQQ	GREENVILLE	SC
	GBI	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	QET	ROANOKE	VA
	CSW	NEW MARTINSVILLE	WV
	VKB	SUMMERSVILLE	WV
	JN	WERTON	WV
7.54 /6.94	CSW	NEW MARTINSVILLE	WV
6.355/6.955	KIN	PERRY	GA
	PRE	ROCKY TOP MT	GA
	ULA	ROCKINGHAM	NC
	MZ	ONEIDA PEAK/BLF	VA
6.37 /6.97	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JQ	SMITHFIELD	NC
	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS MT	TN
	MWQ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	DRV	LOGAN/WARD RK MT	WV
	CRW	PARKERSBURG	WV
6.385/6.985	I	AUGUSTA	GA
	HHH	ELLIJAY/TALONA M	GA
	TOV	PRESTON	GA
	UUB	ST. MARYS	GA
	OGB	ALBEMARLE	NC
	PVE	MARION	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR MT	VA
6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	WAU	ELKHORN CITY	EKY
	DXZ	LANETT(AL)	GA
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL MT	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	MST	BON AIRE	GA
	FOW	CLEVELAND/LONG	GA
	UM	HINESVILLE	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	RHV	HARRIMAN	TN
	K	NASHVILLE	TN
	YGM	UNION CITY	TN
	LNT	FREDRICKSBURG	VA
6.43 /7.03	YTZ	ROCK HILL	SC
	LGH	LEXINGTON	TN
	ZJM	MEMPHIS	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRPORT	GA
	GG	GREENSBORO	NC
	DTS	ROANOKE RAPIDS	NC
	FOF	BARNWELL	SC
	HOG	MYRTLE BEACH, N	SC
	NIQ	FAYETTEVILLE	TN
	ODR	MILLINGTON	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO	VA
	IT	MULLENS/HRNDN MT	WV
	ECC	ST MARYS/BENS R	WV
6.445/7.045	FLR	FAYETTEVILLE	NC
	CNS	ROB/JOANNA BLD	NC
	YVM	ARLINGTON	VA
7.645/7.045	TYM	METTER	GA
	JRL	STATSVL/ASBRY MT	NC
	WRN	STAUNTON/EL. KB	VA
	SBC	VIRGINIA BEACH	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	CQ	CHARLOTTE	NC
	MQQ	MEMPHIS	TN
	LBM	VOLENS	VA
	WL	PRINCETON	WV
7.66 /7.06	DDI	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER/SHAW	SC
	LYF	GRNVLE/GRYSTN	TN
	QEB	SHELBYVILLE	TN
	ECM	CHESTERFLD CO	VA
	KNM	POINT PLEASANT	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBQ	BURLINGTON	NC
	L	NEWTON	NC
	BVO	CLARKSVILLE	TN
	GBI	KNOXVILLE	TN
	PNT	WAYNSBR/BEAR DEN	VA
7.69 /7.09	NDB	FLAT GAP	EKY
	YK	PHELPS	EKY
	CVE	ST SIMONS ISL	GA
	GDF	GREENVL/ESTN NC	NC
	RDN	ORANGEBURG	SC
	ATI	GERMANTON	TN
	BSA	SPARTA/BON AIR	TN

	VL	GALAX/BRRP MT	VA
7.705/7.105	YSB	ATLANTA	GA
	D	STATESBORO	GA
	JCK	MONROE	NC
	GHH	MOUNTAIN HOME	NC
	JBJ	BEDFORD	VA
	VNQ	MT STORM	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	IKY	GIBSONVILLE	NC
	EWL	ROCKY MOUNT	NC
	GMV	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	DKM	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.735/7.135	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH MTN	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	PEARISBURG	VA
	HB	RICHMOND	VA
7.745/7.145	KNE	MT. STERLING	EKY
7.75 /7.15	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	BYK	CUMMING/SAWNEE	GA
	VLY	MORGANTON	NC
	ITL	RALEIGH	NC
	BJM	MONCKS CORNER	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN
	EAJ	OAK RIDGE	TN
	QKH	TAZEWELL	VA
	SVR	ST ALBANS	WV
7.765/7.165	TCU	DOUGLAS	GA
	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	SC	FT MILL/CAROWND	SC
	NAT	GOOSE CREEK	SC
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	DES	POLK CTY/OSWALD	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULASKI	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	RD	CAIRO	GA
	NIN	LENOIR	NC
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	NLX	SAVANNAH	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KNOB	VA
	TC	CHARLESTON	WV
7.825/7.225	ZJN	JEFFERSON	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	C	HARRISONBURG	VA
	SDC	YORKTOWN	VA
7.84 /7.24	DI	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	ACP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	NIT	GALLATIN	TN
	OKH	SOUTH HILL	VA
	FOR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PENIC/MT	NC
	SI	PETROS	TN
	TVS	ACCOMAC	VA
	CYZ	DANTE	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.87 /7.27	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	PJE	FORT PAYNE(AL)	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG MT	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	OWI	MEMPHIS	TN
	GX	GUM SPRING	VA
	SLI	CHARLESTON/HGTN	WV
7.885/7.285	PVW	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC

Continued On Next Page

PLEASE NOTE!

The letters column between the frequency and city indicate suffixes of the repeater callsign.

REPEATERS BY FREQUENCY CONTINUED

	DCD	MYT BEA/BRKSVLLE	SC
	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
	HON	SPRUCE KNOB	WV
7.90 /7.30	U	SALYERSVILLE	EKY
	HNM	ROME	GA
	HON	WARNER ROBINS	GA
	YJG	JEFFERSON	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	MT. PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	ZR	LEXINGTON	VA
	TSC	WINCH/BLUEMONT	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	HQT	JASPER	TN
	HFH	ALEXANDRIA	VA
	MR	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	KNE	MT. STERLING	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVLLE/FT BRAGG	NC
	K	LENOIR/HIBRITN	NC
	NUY	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN
	AJS	NASHVILLE	TN
	PQD	LEXNGTN/COLE MT	VA
	ZIP	WARSAW	VA
7.94 /7.34	NEQ	ATLANTA/MARIETTA	GA
7.945/7.345	IZD	LYNCH/BLACK MT	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVILLE	TN
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	V	BOONE/RICH MTN	NC
	LDB	DURHAM	NC
	Z	LUMBERTON	NC
	OAK	KNXVL/CROSS MT	TN
	MMI	MEMPHIS	TN
	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	TQU	ATHENS	GA
	VEK	LAFAYETTE	GA
	YN	BURNSVILLE	NC
	ROK	GREENVILLE	NC
	DMI	GEORGETOWN	SC
	LEQ	GREENVILLE	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	NV	VIRGINIA BEACH	VA
	LNB	GRAFTON	WV
	WMX	ST ALBANS	WV
7.99 /7.39	PDJ	JENKINS	EKY
	MK	THOMASTON	GA
	CHZ	AQUADALE	NC
	PLY	CHARLOTTE	NC
	OBG	EDEN/STONEVILLE	NC
	FAU	SHALLOTTE	NC
	MKL	SMITHFIELD	NC
	FEC	LEXINGTON	SC
	TA	CLARKSVILLE	TN
	ZLA	DAYTON/RHEA CTY	TN
	SBX	GRAY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	LLM	PARKERSBURG	WV
6.835/7.435	EV	DALONEGA	GA
7.315/7.915	SPJ	FORSYTH	GA

220 MHZ

3.94 /2.34	DBB	BEDFORD/APL MT	VA
2.12 /3.72	PGA	LOUISA	EKY
	KHP	STERLING PK	VA
2.30 /3.90	NSO	GAINESVILLE	GA
	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	OK	ASHLAND	EKY
	UPC	BUCHANAN	GA
	BVW	ASHVL/MT PISGAH	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	APS	VALDOSTA	GA
	HUV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	IZP	JASPER	GA
	ZIA	LOCUST	NC
	ARO	PETERSBURG	VA
2.42 /4.02	JEH	CONYERS	GA
	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.44 /4.04	BZJ	DALTON	GA
2.46 /4.06	UPC	BUCHANAN/HARALSO	GA
	N	PICKENS/SASFR MT	SC
	BZS	FLT TP/WNTRPLACE	WV
2.48 /4.08	GIS	CARTERSVILLE	GA
	CII	RIDGEVILLE	SC
	UEX	NASHVILLE	TN
2.50 /4.10	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	NFP	ATLANTA/MARIETTA	GA
	FEC	LITTLE MT	SC
	MEY	NASHVILLE	TN
2.54 /4.14	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS HD	SC
	SQS	FRANKLIN	TN
	YYW	WILLIAMSON	WV
2.56 /4.16	K	LENOIR/HIBRITN	NC
	TA	CLARKSVILLE	TN
2.58 /4.18	TAG	HICKORY VALLEY	TN
	DAS	VIRGINIA BEACH	VA
2.60 /4.20	UA	AUGUSTA	GA
	PEA	FARMVILLE	VA
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERWLW M	NC
2.66 /4.26	NP	MT. JULIET	TN
2.68 /4.28	BLR	ATLANTA	GA
	M	LYNCHBURG	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.72 /4.32	JBF	THOMASVILLE	GA
2.74 /4.34	DOC	ATLANTA	GA
	DFH	FRIES/SAND MTN	VA
2.76 /4.36	TYO	MARSHALL	NC
2.78 /4.38	RBT	CLEVELAND	GA
	GJG	DANVILLE	VA
2.80 /4.40	ZC	CHARLT/MINT HL	NC
2.82 /4.42	NDQ	NORTON/HIGH KB	VA
2.84 /4.44	OG	NASHVILLE	TN
2.86 /4.46	YON	KNOXVILLE	TN
2.88 /4.48	LNB	GRAFTON	WV
2.90 /4.50	BBB	KNOXVILLE	TN
	DRL	MEM/FISHERVILLE	TN
	BVI	MARTINSVILLE	VA
2/90 /4.50	YNY	WILMINGTON	NC
2.92 /4.52	KSM	CANTON	GA
2.94 /4.54	BVW	MT MITCHELL	NC
2.96 /4.56	DOC	ATL/CHESTNUT MT	GA
2.98 /4.58	F	PIKEVILLE	EKY
	YHH	SAURATOWN MT	NC
	VFD	CROSS	SC
3.00 /4.60	N	ASHEVILLE	NC
	NNR	HIGH POINT	NC
3.02 /4.62	ETG	PIKEVILLE	EKY
	ZTL	ATLANTA/BELL	GA
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALEM	NC
3.06 /4.66	TYO	MARS HILL	NC
	MEY	NASHVILLE	TN
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	IQR	ATLANTA	GA
	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
	KHP	TYSONS CORNER	VA
3.14 /4.74	KVC	DALTON	GA
	FG	KINGSTON/LICK KB	WV
3.16 /4.76	BOC	STONE MT	GA
	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
	UCI	JOHNSON CITY	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GREENSBORO	NC
	CCF	ALEXANDRIA	VA
3.24 /4.84	ACY	PERRY	GA
	DAN	GRIFTON	NC
	PLV	BEDFORD	VA
3.26 /4.86	TEM	KNOXVILLE	TN
	UHA	NEWPORT NEWS	VA
3.28 /4.88	RXG	SAURATOWN MT	NC
3.30 /4.90	OPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL MT	TN
3.34 /4.94	UPC	CANTON	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	GVC	CHESAPEAKE	VA
	DBB	ROANOKE/POOR MTN	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
	YHH	SAURATOWN MT	NC
3.38 /4.98	JSR	CUMMINS/SAWNE MT	GA
	CHP	FALLS CHURCH	VA
22.50/4.10	F	CORNELIA	GA

440 MHZ

9.45 /5.67	DOC	ATLANTA	GA
9.25 /1.25	KIP	ATLANTA	GA
	PXX	BRUNSWICK	GA
	HUV	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	UMU	SUMTER	SC
	WRN	NORFOLK	VA
	MM	ALBANY	GA
	NYR	SHELBY	NC
1.25 /9.25	ERU	MEMPHIS	TN
7.00 /2.00	WAY	PICKENS/CSRS HD	SC
	BIW	MARION	VA
	CSG	WINCHESTER	VA
7.025/2.025	JA	AUGUSTA	GA
7.05 /2.05	DXZ	LANETT(AL)	GA
	PML	MORGANTON	NC
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	AQP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.175/2.175	EO	ROCKY FACE	GA
7.20 /2.20	BJY	JACKSON	TN
	LNB	GRAFTON	WV
7.25 /2.25	HQT	JASPER	TN
	HTI	COVINGTON	VA
7.30 /2.30	VFD	CROSS	SC
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR MT	VA
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	HON	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.825/2.825	G	MEMPHIS	TN
7.90 /2.90	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	LUR	LAKE CITY	TN
	LUR	LAKE CITY/CRS MT	TN
	QWW	MEMPHIS	TN
	VL	GALAX/PT LOOKOUT	VA
8.05 /3.05	JVX	GOLDSBORO	NC
8.10 /3.10	PUB	MT JULIET	TN
	IZD	LYNCH/BLACK MT	EKY
	GGC	SAURATOWN MT	NC
	HKZ	PARIS MT	SC
	G	FAYETTEVILLE	TN
	FHE	BUCKHANNON	WV
8.15 /3.15	S	AUGUSTA	GA
8.20 /3.20	CLA	SWEAT MT	GA
	TAG	HICKORY VALLEY	TN
8.30 /3.30	KQI	STATESVILLE	NC
	KJH	GATLBG/COVE MT	TN
8.40 /3.40	GMT	CUMBERLAND CITY	TN
	DQR	MEMPHIS	TN
8.45 /3.45	VEK	HIGH PT/LOOKT MT	GA
8.50 /3.50	LVH	ATLANTA	GA
	PQZ	GREENSBORO	NC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	LVH	ATLANTA/SE	GA
	XE	ROARING GAP	NC
8.60 /3.60	ACJ	MARIETTA	GA
	DWU	MT MITCHELL	NC
8.65 /3.65	ZV	ATLANTA	GA
	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	TF	COVINGTON	GA
	EDS	ALAMO	TN
	WIC	WINDY GAP MT	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	OKS	JASPER/BIG BUCK	GA
	HNK	SUMMERVILLE	SC
	NDH	CHESAPEAKE	VA
	JRL	WYTHEVILLE	VA
8.85 /3.85	GTJ	WALESKA/PNLOG MT	GA
	IDB	FRANKLIN	TN
8.875/3.875	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.925/3.925	IU	RINGGOLD	GA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	ODX	LAWRENCEVILLE	GA
	JEQ	HICKORY	NC
	ADT	MEMPHIS	TN
	SDC	VIRGINIA BEACH	VA
	IT	MULLENS/HRNDN MT	WV
9.025/4.025	MSE	STONE MT	GA
	RDK	MEMPHIS	TN
9.05 /4.05	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	BEAR DEN MT	VA
9.10 /4.10	APR	DECATUR	GA
	WTX	DURHAM	NC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	ZTL	ATLANTA/BELL	GA
	PQD	LEXNGTN/COLE MT	VA
	VA	SPRINGFIELD	VA
9.20 /4.20	OHN	COLUMBUS	GA
	LBM	DECATUR	GA
	NEX	MORRISTOWN	TN
	ECM	CHESTER	VA
	EZA	WAYNESBORO	VA
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	KNI	HENDSVL/BERWLW M	NC
	ETE	MEMPHIS	TN
	RM	SMYRNA	TN
	TFZ	CHARLOTTESVILLE	VA
9.30 /4.30	MNH	CHARLESTON	SC
	HXD	KNOXVILLE	TN
	DDS	MEM/FISHERVILLE	TN
	BLD	WAYNESBORO	VA
9.325/4.325	ACJ	MARIETTA	GA
9.35 /4.35	JF	TIFTON	GA
	DBB	BEDFD/APL ORCH	VA
9.375/4.375	BFD	MT OGELTHORPE	GA
9.40 /4.40	ZW	FAYETTEVILLE	NC
	KOG	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	ARO	PETERSBURG	VA
	FQJ	LOGAN/BLAIR MT	WV
9.425/4.425	ISI	ALTAVISTA	VA
9.45 /4.45	KWP	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.50 /4.50	MM	ALBANY	GA
	UWA	ATLANITA	GA
	LSP	BRISTOL/HLST MT	TN
	KSL	KNOXVILLE	TN
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
	OYU	HUNTINGTON	WV
9.525/4.525	USY	SUMTER/SHAW	SC
9.55 /4.55	NEF	TYRONE	GA
	JPA	HAMPTON	VA
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	JXI	MEMPHIS	TN
	HFH	ALEXANDRIA	VA
	OZT	ST ALBANS	WV
9.625/4.625	WQ	ATLANTA	GA
	MZ	BLUEFIELD	VA
9.65 /4.65	IBW	SMYRNA	GA
	HF	SALISBURY	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	AY	NASHVILLE	TN
9.70 /4.70	HHH	LLLUAY TALONA M	GA
	APS	VALDOSTA	GA
	JEH	ROCKY MOUNT	NC
	DRU	MT PLEASANT	SC
	MMI	MEMPHIS	TN
	LG	MORGANTOWN	WV
9.725/4.725	TJW	DALTON	GA
9.75 /4.75	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON MT	TN
	KQI	FOREST	VA
	JYF	TYSONS CORNER	VA
9.775/4.775	NEQ	ATLANTA/MARIETTA	GA
	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH PK	NC
	JXI	MEMPHIS	TN
	MIC	OILVILLE	VA
	FRV	LK KNOB/KINSTON	WV

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CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	*	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
AQUADALE	WA4CHZ	147.99	147.39	N	
ASHEBORO	KJ4AV	147.855	147.255	*	PAL
ASHEVILLE	WA4QCO	146.235	146.835	N	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	*	A
BEARWALLOW MT.	WA4KNI	145.01	BRA	*	K
BENSON	AK4H	147.87	147.27	*	A
BOONE/RICH MTN	KU4V	147.96	147.36	*	
BREVARD/RICH MTN	WB4CJS	147.735	147.135	*	A
BURGAW	W4DLH	146.34	146.94	*	
BURLINGTON	WB4ZIN	146.07	146.67	*	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	
CHARLOTTE	W4BFB	144.63	145.23	N	
CHARLOTTE	W4BFB	144.69	145.29	N	A
CHARLOTTE	WA4AOS	144.75	145.35	N	L
CHARLOTTE	W4BFB	146.34	146.94	N	A
CHARLOTTE	W4CQ	146.46	147.06	*	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	N	R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
CONCORD/KANNAP.	K4CEB	146.055	146.655	*	PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	*	PA
DURHAM	WA4WTX	144.85	145.45	*	AL
DURHAM	WA4BFT	146.34	146.94	N	A
DURHAM	WD4LDB	147.96	147.36	*	
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	O
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WA4FLR	146.445	147.045	*	R
FAYVLLE/CFARS	WB4YZF	146.31	146.91	*	PA
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	N	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	N	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	N	A
GASTONIA	K4NOQ	146.205	146.805	*	PA
GIBSONVILLE	WB4IKY	147.72	147.12	*	A
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	WA4MSS	146.16	146.76	N	
GREENSBORO	W4GG	147.63	147.03	*	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENSBORO/GLD H	N4AZM	144.65	145.25	*	A
GREENVILLE	WA4DAN	144.75	145.35	*	L
GREENVILLE	K4ROK	147.975	147.375	N	
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	*	
HALIFAX	AA4SJ	146.07	146.67	N	A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	*	A
HENDSVL/PENIC/MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	N	AO
HIGH POINT	N4LDK	146.40	147.00	*	LA
HIGH POINT	KB4BPV	147.435	146.835	*	PA
HIGH POINT	KJ4RT	147.765	147.165	N	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	*	AL
JACKSONVILLE	WD4FVO	146.40	147.00	*	A
JEFFERSON	W4YJG	147.90	147.30	N	A
LAURINBURG	K4QWK	146.025	146.625	*	A
LENOIR	N4NIN	147.795	147.195	N	C
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEXINGTON	K4IZM	146.31	146.91	*	EA
LK NORMN/CLT	WB4KPF	147.615	147.015	*	PA
LUMBERTON	W4NHV	147.90	147.30	*	PA
LUMBERTON	WV4Z	147.96	147.36	*	PA
MACO	WA4LED	147.66	147.06	N	
MADISON	KA4YFF	146.295	146.895	N	
MAGGIE VALLEY	W4HCY	147.405	146.805	*	
MANTEO/WANCHESE	W4ACY	146.34	146.94	*	
MARION	WD4PVE	146.385	146.985	*	A
MAYODAN	WA4ACP	144.69	145.29	N	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	K4JCK	147.705	147.105	N	A
MONROE/UCARS	KF4NJ	144.79	145.39	*	PA
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	*	
MOUNTAIN HOME	K4GHH	147.705	147.105	*	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	*	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	*	PA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	*	PA
NEW BERN	WD4JMS	146.01	146.61	*	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	AG4L	147.675	147.075	*	A
NEWTON/ANDSN MT	W4ZQB	144.57	145.17	N	
OXFORD	N4EKK	144.57	145.17	*	PA
RALEIGH	N4BEA	144.67	145.27	N	PAL
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	*	
RALEIGH	K4BWC	146.13	146.73	*	PA
RALEIGH	K4ITL	146.28	146.88	*	L
RALEIGH	K4ITL	147.75	147.15	*	PA
RANDLEMAN/GBO	WD4CVM	144.55	145.15	*	
REIDSVILLE	K4YFT	146.25	146.85	N	
ROANOKE RAPIDS	K4ITL	144.71	145.31	*	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	N	
ROARING GAP	WB4PZA	146.22	146.82	*	A
ROB/JOANNA BLD	WD4CNS	146.445	147.045	N	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	N	PA
SALISBURY	W4EXU	146.13	146.73	*	PA
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	W4RXG	144.51	145.11	*	R
SAURATOWN MT	WA4GIC	144.87	145.47	*	
SAURATOWN MT	N4LDK	146.19	146.79	*	PA
SHALLOTTE	K4PPD	144.69	145.29	*	PA
SHALLOTTE	N4FAU	147.99	147.39	*	PA
SHELBY	W4NYR	146.28	146.88	*	
SHELBY	W4NYR	147.945	147.345	N	PA
SMITHFIELD	KD4JQ	146.37	146.97	N	

DISTRIBUTION OF REPEATERS BY FREQUENCY

9.825/4.825	CUL	MORGANTOWN	WV
9.85 /4.85	ZBP	STAUNTON	VA
	NFP	ATLANTA/MARIETTA	GA
	CQ	CHARLOTTE	NC
	GMP	WILMINGTON	NC
	ARO	RICHMOND	VA
9.875/4.875	LRD	CHATTANOOGA	TN
	THG	NASHVILLE	TN
	FMD	JANE LEW	WV
9.90 /4.90	COS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS MT	SC
	ETE	MEMPHIS	TN
	BON	ROANOKE/POOR MT	VA
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	WXL	RALEIGH	NC
	SIR	BENTON/BEAN MT	TN
	KQQ	MEMPHIS	TN
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	CQV	S. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	HPP	MEMPHIS	TN
	OES	NASHVILLE	TN
4.00 /5.00	VBA	CHEAHA MT(AL)	GA
6.65 /6.65	DBB	ROANOKE	VA
4.225/9.225	JCE	MANASSAS	VA

4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FOR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA

920 MHZ

7.10 /9.10	TAG	HICKORY VALLEY	TN
9.10 /1.10	DRL	MEM/FISHERVILLE	TN

1270 MHZ

1.40 /1.40	DOC	ATL/CHESTNUT MT	GA
1.10 /1.10	DRL	MEM/FISHERVILLE	TN
1.20 /1.20	TAG	HICKORY VALLEY	TN

10 METERS

9.60 /9.60	TFZ	CHARLOTTESVILLE	VA
	CTF	NEWPORT NEWS	VA
9.52 /9.62	LVH	ATLANTA	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAYSER	TN
9.54 /9.64	CC	ATL/MARIETTA	GA
	BZU	DONELSON	TN
	TAG	HICKORY VALLEY	TN
	BON	ROANOKE/POOR MT	VA
9.56 /9.66	ACP	EDEN	NC

9.58 /9.68	ZBP	STAUNTON	VA
	MM	ALBANY	GA
	K	CONYERS	GA
	BZJ	DALTON	GA
	XX	JASPER	TN
	DRL	MEM/FISHERVILLE	TN
	MZ	ONEIDA PK/BLFLD	VA
	DN	STERLING	VA

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVILLE	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVILLE	VA
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	YAO	HENDERSONVILLE	NC
	LRD	CHATTANOOGA	TN
	KOG	MEMPHIS	TN
	POD	LEXNGTN/COLE MT	VA
	LSP	NORTON/HIGH KB	VA
2.03 /3.03	EDU	AUGUSTA	GA
	DTS	ROANOKE RAPIDS	NC
2.05 /3.05	UPC	WALESKA/PNLOG MT	GA
	HSN	COPE	SC
2.07 /3.07	ODA	LINEVILLE(AL)	GA
	NNN	LOUISA	VA
2.09 /3.09	MPW	ATL/MARIETTA	GA
	BON	ROANOKE/POOR MT	VA
2.13 /3.13	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC)	VA

MORE NORTH CAROLINA REPEATERS

SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	★	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	★	PA
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	★	
TRENTON	K4ITL	144.61	145.21	★	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	★	
WADESBORO	WA4IAT	146.235	146.835	N	
WASHINGTON	WA4TEP	147.945	147.345	N	
WAXHAW	WA4ZRS	147.465	146.865	★	PA
WAYNESVILLE	N4SM	147.87	147.27	★	A
WHITEVILLE	K4MSD	147.81	147.21	★	
WILLIAMSTON	KA4KNU	144.81	145.41	★	A
WILMINGTON	W4VNK	146.13	146.73	★	PA
WILMINGTON	K4GMP	146.22	146.82	★	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	★	
WINSTON-SALEM	WA4GIC	146.04	146.64	★	AL

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	★	L
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	★	
CHARLT/MINT HL	KE4ZC	222.80	224.40	★	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	★	
GOLDSBORO	WB3JVX	223.36	224.96	N	EAC
GREENSBORO	WB4IKY	223.22	224.82	★	A
GRIFTON	WA4DAN	223.24	224.84	★	
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	★	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92	★	LA
HIGH POINT	N4NNR	223.00	224.60	★	PA
HILLSBOROUGH	WA4WTX	222.34	223.94	★	L
LENOIR/HIBRITN	KN4K	222.56	224.16	★	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	★	
LOCUST	WA4ZIA	222.40	224.00	★	PAL
LUMBERTON	WB4WOR	222.54	224.14	N	
MARS HILL	KA4TYO	223.06	224.66	N	C
MARSHALL	KA4TYO	222.76	224.36	N	
MORGANTON	WB4PML	223.20	224.80	N	
MT MITCHELL	WA4BVW	222.94	224.54	★	
MT. TOXAWAY	K4MSK	223.12	224.72	N	
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	★	PA
SALISBURY	W4EXU	223.16	224.76	★	L
SAURATOWN MT	WA4YHH	222.98	224.58	★	C
SAURATOWN MT	W4RXG	223.10	224.70	★	R
SAURATOWN MT	W4RXG	223.28	224.88	★	
SAURATOWN MT	WA4YHH	223.36	224.96	★	C
STATESVILLE	WA4PVI	222.70	224.30	N	
WILMINGTON	K4YNY	222/90	224.50	N	C
WINSTON-SALEM	WA4YHH	223.04	224.64	★	PA

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	N	
CHARLOTTE	W4CQ	449.85	444.85	★	
DURHAM	WA4WTX	449.10	444.10	★	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05	N	EA
GREENSBORO	WD4PQZ	448.50	443.50	N	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	★	
HICKORY	K4JEQ	449.00	444.00	★	
HIGH POINT	K4AZA	447.90	442.90	★	L
HIGH POINT	N4LXW	448.70	443.70	N	
LOCUST	WA4LBT	448.70	443.70	★	L PA
MORGANTON	WB4PML	447.05	442.05	N	
MT AIRY/FSH PK	KF4UY	449.80	444.80	★	L
MT MITCHELL	N4DWU	448.60	443.60	★	
NEW BERN	WA4VBC	449.90	444.90	★	O
RALEIGH	N4BEA	447.15	442.15	N	L
RALEIGH	WA1WXL	449.95	444.95	★	
ROARING GAP	KC4XE	448.55	443.55	★	L
ROCKY MOUNT	N4JEH	449.70	444.70	★	PA
SALISBURY	KJ4HF	449.65	444.65	★	ARB
SAURATOWN MT	WA4HUV	439.25	421.25	★	V
SAURATOWN MT	N4GGC	448.10	443.10	★	L
SHELBY	W4NYR	439.25	427.25	★	V
STATESVILLE	KB4KQI	448.30	443.30	★	RB
WILMINGTON	K4GMP	449.85	444.85	★	
WILSON	NE4J	449.90	444.90	★	

10 METERS

EDEN	WA4ACP	29.56	29.66	N	
WILKESBORO	KC4XE	29.52	29.62	★	L

6 METERS

HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
HIGH POINT	K4AZA	52.525	52.525	N	RB
RALEIGH/BUTNER	WB4RZF	52.25	53.25	N	C
ROANOKE RAPIDS	WA4DTS	52.03	53.03	N	
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

BIG KNOB MT.	K4ZMC-1	145.01	N	K
CHARLOTTE	W4CQ-1	145.01	★	K
CHARLOTTE	W4BFB-1	145.01	N	K
CHERRY MTN	WB4RDL-1	145.01	N	K
COLFAX	KE4TH-1	145.07	N	K
CONCORD	K4CEB-1	145.05	★	K
GOLDSBORO	K4CYP-1	145.01	★	K
GREENVILLE	WD4JPQ-1	145.01	N	K
LINVILLE	KB4NHB-2	145.05	★	K
LUMBERTON	W4NHV	145.01	★	K
RALEIGH	K4ITL-1	145.01	★	K
RALEIGH	K4BWC-1	145.01	★	K
SAURATOWN MT	W4RXG-1	145.01	N	K

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	★	EA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	★	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	★	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	★	L
BEDFORD	WB4JBJ	147.705	147.105	★	LRPA
BLACKSBURG	AB9I	146.115	146.715	N	
BLAND	N4AZJ	144.75	145.35	★	PA
BLUEFIELD	W8MOP	144.89	145.49	★	PA
BRISTOL	WD4CYZ	146.28	146.88	N	
BRUMLEY MT	K4LSP	146.01	146.61	★	EA
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	★	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	★	
CHASE CITY	W4AXH	146.31	146.91	★	
CHESAPEAKE	K4NDH	144.69	145.29	★	EA
CHESAPEAKE	N4GSP	146.01	146.61	★	A
CHESAPEAKE	N4SD	146.19	146.79	★	A
CHESTERFIELD	KA4CBB	147.96	147.36	★	
CHESTERFLD CO	WA4ECM	147.66	147.06	2	PA
COVINGTON	WA4HTI	146.205	146.805	N	
CULPEPPER	N4FAF	147.72	147.12	M	
DANTE	KA4JNC	146.085	146.685	N	C
DANTE	WD4CYZ	147.855	147.255	N	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	★	A
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	★	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQI	144.73	145.33	★	
FINCASTLE	W4WIC	146.04	146.64	★	AL
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	M	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	★	
GALAX/LKOUT MT	N4VL	144.53	145.13	★	
GLOUCESTER	KA2IMI	144.77	145.37	N	
GRUNDY	K4HWQ	147.92	147.32	N	ANB

SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE VIRGINIA REPEATERS

GRUNDY/BIG A MT	WD4DCX	146.235	146.835	N	
GUM SPRING	KB4GX	147.87	147.27	N	
HAMPTON	K4DHO	146.13	146.73	N	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HARRISONBURG	WX4C	147.825	147.225	*	
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	*	
KILMARNOCK	W2MS	144.61	145.21	N	A
LEXINGTON	KI4ZR	147.90	147.30	*	
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	N	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	*	PA
MARION	N4BIW	146.04	146.64	*	
MARTINSVILLE	AB4L	147.885	147.285	N	
MCLEAN	WD4IWG	147.81	147.21	M	R
MOUNTAIN LAKE	KD8MZ	147.465	146.865	N	RB L
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	O
NEW MARKET	K4AVW	146.025	146.625	*	
NEWPORT NEWS	WA4OHX	144.89	145.49	N	PA
NEWPORT NEWS	WB4CTF	147.765	147.165	*	PAL
NORFOLK	NE4D	146.10	146.70	*	EA
ONEIDA PEAK/BLF	KD8MZ	146.355	146.955	*	PAL
PEARISBURG	N4AZJ	147.735	147.135	*	
PETERSBURG	K4ARO	144.55	145.15	N	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	N	PA
PORTSMOUTH	N4MG	146.25	146.85	N	
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	NB4B	144.59	145.19	N	
RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	*	PA
RICHMOND	WA4ECM	146.235	146.835	*	
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	PAL
SALEM	W4PDL	146.28	146.88	N	
SOUTH HILL	N4OKH	147.84	147.24	*	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WA4QKH	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.295	146.895	*	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	*	
VOLENS	WD4LBM	146.46	147.06	*	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	*	EA
WAYNESBORO	W4BLD	147.63	147.03	*	
WAYNSBR/BEAR DEN	W4PNT	147.675	147.075	*	PAL
WILLIAMSBURG	W4NTG	146.07	146.67	*	
WILLIAMSBURG	KB4ZIN	146.16	146.76	*	A
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHEVILLE	KC4VR	144.67	145.27	*	AL
WYTHEVILLE	WD4MUQ	146.175	146.775	*	
YORKTOWN	K4UMI	144.63	145.23	N	P
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
BEDFORD	N4PLV	223.24	224.84	N	
BEDFORD/APL MT	WB4DBB	223.94	222.34	*	RB
CHESAPEAKE	WA6GVC	223.34	224.94	N	
DAN/WHT OAK	K4OAK	223.16	224.76	N	
DANVILLE	WB4GJG	222.78	224.38	*	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FARMVILLE	WB4PEA	222.60	224.20	N	
FRIES/SAND MTN	WA4DFH	222.74	224.34	*	
LYNCHBURG	AB4M	222.68	224.28	N	
MARTINSVILLE	WB4BVI	222.90	224.50	*	EA
NEWPORT NEWS	KB4UHA	223.26	224.86	N	
NORTON/HIGH KB	WA4NDQ	222.82	224.42	N	
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	N	
STERLING PK	WD4KHP	222.12	223.72	M	
TYSONS CORNER	WD4KHP	223.12	224.72	M	L
VIRGINIA BEACH	WD8DAS	222.58	224.18	N	

440 MHZ

ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEAR DEN MT	W4BLD	449.05	444.05	*	
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
BLUEFIELD	KD8MZ	449.625	444.625	*	LPA
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	K4NDH	448.80	443.80	*	PA
CHESAPEAKE	N4EVG	448.90	443.90	*	PA
CHESTER	WA4ECM	449.20	444.20	N	RB
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FOREST	WD4KQI	449.75	444.75	N	
GALAX/PT LOOKOUT	N4VL	448.00	443.00	*	L
HAMPTON	K4UMI	448.65	443.65	N	
HAMPTON	WB4JPA	449.55	444.55	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
MARION	N4BIW	447.00	442.00	*	
NORFOLK	W4WIN	439.25	426.25	N	V
OILVILLE	KB4MIC	449.80	444.80	N	
PETERSBURG	K4ARO	449.40	444.40	*	
RICHMOND	K4ARO	449.65	444.65	*	
RICHMOND	K4ARO	449.85	444.85	*	
ROANOKE	WB4DBB	446.65	446.65	*	L
ROANOKE	N4HON	447.70	442.70	N	
ROANOKE/POOR MT	W4CA	447.50	442.50	*	L
ROANOKE/POOR MT	WB8BON	449.925	444.925	N	CL
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	WA4ZBP	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WD4SDC	449.00	444.00	N	C
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	WA4EZA	449.20	444.20	N	
WAYNESBORO	W4BLD	449.30	444.30	*	
WILLIAMSBURG	W4NTG	448.95	443.95	*	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WINDY GAP MT	W4WIC	448.75	443.75	*	L
WOODBRIDGE	WB4FQR	444.90	449.90	M	
WYTHEVILLE	KA4JRL	448.80	443.80	N	C

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
NEWPORT NEWS	WB4CTF	29.60	29.60	*	RB
ONEIDA PK/BLFLD	KD8MZ	29.58	29.68	N	
ROANOKE/POOR MT	WB8BON	29.54	29.64	N	CL
STAUNTON	WA4ZBP	29.56	29.66	*	RB
STERLING	KD4DN	29.58	29.68	M	

6 METERS

ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	*	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LOUISA	KA4NNN	52.07	53.07	N	
NORTON/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	N	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L
ROANOKE/POOR MT	WB8BON	52.09	53.09	N	CL

PACKET

ACCOMAC	KJ4AG-1	145.01	*	K
ACCOMAC	KJ4AG-3	145.03	*	K
AFTON MT.	W4BLD-2	145.03	*	K
BEAR DEN MT	W4BLD-1	145.01	*	K
CHARLOTTESVILLE	WA4TFZ-2	145.03	*	K
CHESAPEAKE	N4SD-1	145.01	*	K
COVINGTON	WA4PGI-1	145.01	N	K
FANCY GAP	WA4LWE-1	145.01	N	K
FORK MTN	WA4FRV-3	145.01	N	K
FREDERICKSBURG	KB4OB-1	145.01	M	K
GARRISONVILLE	AA4PB-1	145.01	N	K
GRUNDY/GDY	KK4EH-1	145.01	N	K
HAMPTON	K4UMI-5	145.01	N	K
LYNCHBURG	K4LKQ-1	145.01	N	K
MARION	KC4VR-4	145.01	*	K
MARION	KC4IH-2	145.01	N	K
MIDDLEBURG	WA4TSC-1	145.01	N	K
NASSAWADOX	KJ4AG-2	145.01	*	K

MORE VIRGINIA REPEATERS

NORTON/HI KNOB	KC4IH-1	145.01	N	
ONEIDA PEAK/BLF	WB4BBF-1	145.01	*	K
PEARISBURG	KC4VR-2	145.01	*	K
PETERSBURG	K4ARO-1	145.01	*	K
RICHMOND	K4ARO-2	145.05	N	K
ROANOKE	N4FHL-1	145.01	N	K
ROANOKE	WB4QOJ-1	145.07	N	K
STEPHENS CITY	W3CSG	145.01	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	*	K
WASHINGTON, D.C.	WB4JFI-5	145.01	N	K
WOODBRIDGE	WB4FQR-4	145.01	N	K
WOODBRIDGE	KA4USE-1	145.07	N	K
WYTHEVILLE	KC4VR-1	145.01	*	K

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	N	
BRISTOL	K4ILW	146.07	146.67	N	A
BRISTOL	WD4CYZ	146.28	146.88	N	
BRISTOL/HLSTN MT	K4LSP	146.16	146.76	N	A
BROWNSVILLE	WA4ABU	146.055	146.655	N	
CARTHAGE	N4OTT	144.59	145.19	N	C
CHATT/SIGNAL MT	KW4Z	146.055	146.655	*	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	*	
CHATTANOOGA	KB4TZ	144.79	145.39	*	A
CHATTANOOGA	K4CMY	146.01	146.61	*	
CHATTANOOGA	W4DSK	146.19	146.79	*	A
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLARKSVILLE	N2BVO	147.675	147.075	N	
CLARKSVILLE	AA4TA	147.99	147.39	N	C
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	*	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	*	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FRANKLIN	WB4HCK	144.55	145.15	N	RB
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GERMANTON	KA4ATI	147.69	147.09	N	
GRAY	WD4SBX	147.99	147.39	*	A
GREENEVILLE	K4EPC	144.79	145.39	*	
GREENEVILLE	WB4TUO	144.81	145.41	*	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	N	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
GUTHRIE (TN/KY)	KA4NNE	146.205	146.805	N	
HARRIMAN	WA4RHV	147.615	147.015	N	C
HENDERSONVILLE	WB4WZK	144.67	145.27	*	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	N	
HICKORY VALLEY	KA5TAG	144.73	145.33	*	L
HOLSTON MT/E TN	WB4SQC	144.69	145.29	*	PA
HUMBOLDT	NQ4Y	144.75	145.35	N	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JAMESTOWN	KE4JE	144.55	145.15	N	
JASPER	KD4XX	144.59	145.19	N	
JASPER	N4HQT	147.915	147.315	N	
JOHNSON CITY	W4ABR	146.19	146.79	N	A
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	*	PA
KNOXVILLE	N4IJL	144.51	145.11	N	
KNOXVILLE	W4BBB	144.61	145.21	*	A
KNOXVILLE	WA4TEM	144.73	145.33	*	AL
KNOXVILLE	N4GRC	144.77	145.37	*	
KNOXVILLE	N4IUA	144.83	145.43	N	
KNOXVILLE	WB4GBI	144.87	145.47	*	
KNOXVILLE	WB4GBI	146.025	146.625	*	C
KNOXVILLE	WB4GBI	146.34	146.94	*	
KNOXVILLE	WB4GBI	147.675	147.075	*	A
KNOXVILLE	W4BBB	147.90	147.30	*	
KNXVL/CROSS MT	KA4OAK	147.96	147.36	N	
KNXVL/ENG MT	WB4IOB	146.13	146.73	*	
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	N	
LAVERNE	KJ4RA	144.63	145.23	N	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KB4PIO	146.085	146.685	N	C
LEXINGTON	WB4LGH	146.43	147.03	N	
LOUDON	KE4V	144.57	145.17	*	
MANCHESTER	W4UOT	146.10	146.70	*	PA
MARTIN	WA4ZQX	146.025	146.625	*	
MCMINNVILLE	WD4MWQ	146.37	146.97	*	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MEDINA	K4BEZ	146.37	146.97	N	A
MEM/FISHERVILLE	N4DRL	144.65	145.25	*	AL
MEMPHIS	KOJXI	144.55	145.15	N	
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	WB4KQQ	146.04	146.64	*	EA
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	*	PA
MEMPHIS	K4FZJ	146.19	146.79	N	
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	*	A
MEMPHIS	K4BN	146.34	146.94	*	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4ZJM	146.43	147.03	N	L
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	KA4GMV	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WA4OWI	147.87	147.27	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON	W4ODR	147.63	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MT JULIET	WA4CBF	144.77	145.37	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	W4PQP	146.16	146.76	*	
NASHVILLE	W4SQE	146.19	146.79	*	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	N	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	*	
OAK RIDGE	K4EAJ	147.75	147.15	*	RL
PARIS	K4KLX	147.96	147.36	N	A
PETROS	KJ4SI	147.855	147.255	*	
PIKEVILLE	K4MJM	147.885	147.285	*	
POLK CTY/OSWALD	WD4DES	147.78	147.18	N	
PULASKI/MUS MT	W4JVO	146.175	146.775	N	EA
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	N	
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHORT MTN	W4YXA	146.31	146.91	*	
SMYRNA	WB4LHO	144.57	145.17	N	PA
SPARTA/BON AIR	W4BSA	147.69	147.09	N	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KF4VM	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	N	
UNION CITY	WA4YGM	147.615	147.015	N	
WAVERLY	NO4Q	146.085	146.685	N	
WINCHESTER	WB4UEW	146.22	146.82	*	

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	*	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
CLARKSVILLE	AA4TA	222.56	224.16	N	C
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	N	
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90	N	
HICKORY VALLEY	KA5TAG	222.58	224.18	*	L
JOHNSON CITY	WA4UCI	223.18	224.78	N	C
KNOXVILLE	WA4YON	222.86	224.46	N	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNOXVILLE	WA4TEM	223.26	224.86	*	L
MEM/FISHERVILLE	N4DRL	222.90	224.50	*	L
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4MEY	222.52	224.12	N	C
NASHVILLE	N4AWB	222.62	224.22	N	
NASHVILLE	KI4OG	222.84	224.44	N	
NASHVILLE	N4MEY	223.06	224.66	N	

MORE TENNESSEE REPEATERS

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
BENTON/BEAN MT	K4SIR	449.95	444.95	N	
BRISTOL/HLST MT	K4LSP	449.50	444.50	N	ARB
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	✭	A
CHATTANOOGA	WB4LRD	449.875	444.875	N	
CUMBERLAND CITY	N4GMT	448.40	443.40	N	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	443.10	N	
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4KWP	449.45	444.45	N	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	✭	
HICKORY VALLEY	KA5TAG	448.20	443.20	✭	L
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	N	A
JASPER	KD4XX	447.05	442.05	N	
JASPER	N4HQT	447.25	442.25	N	
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4KSL	449.50	444.50	N	
KNOXVILLE	KB4NK	449.60	444.60	N	
LAKE CITY	WD4LUR	448.00	443.00	N	C
LAKE CITY/CRS MT	WD4LUR	448.00	443.00	✭	PA
MEDINA	K4BEZ	447.05	442.05	N	AL
MEM/FISHERVILLE	N4DDS	449.30	444.30	✭	L
MEMPHIS	N4ERU	421.25	439.25	N	V
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	WF4G	447.825	442.825	N	
MEMPHIS	WA4QWW	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	WA4ADT	449.00	444.00	N	
MEMPHIS	K4RDK	449.025	444.025	N	
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	WA4ETE	449.25	444.25	N	
MEMPHIS	WA4KOG	449.40	444.40	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	KOJXI	449.60	444.60	N	
MEMPHIS	WB4MMI	449.70	444.70	N	T
MEMPHIS	KOJXI	449.80	444.80	N	
MEMPHIS	WB4MMI	449.90	444.90	N	L
MEMPHIS	WA4ETE	449.925	444.925	N	
MEMPHIS	WB4KQQ	449.95	444.95	✭	
MEMPHIS	K4HPP	449.975	444.975	N	
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MT JULIET	WA4PUB	448.05	443.05	N	
NASHVILLE	KI4OG	449.05	444.05	N	T
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	✭	L
KNXVL/ENG MT	WB4IOB	29.52	29.62	✭	P
MEM/FISHERVILLE	N4DRL	29.58	29.68	✭	L
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	
GALLATIN	WD4KWP	52.45	53.45	N	
GUTHRIE (TN/KY)	KA4ZKL	52.23	53.23	N	
HICKORY VALLEY	KA5TAG	52.67	53.67	✭	L
KNOXVILLE	WA4YON	52.25	53.25	N	
KNOXVILLE	WB4GBI	52.35	53.35	✭	
KNXVL/ENG MT	WB4IOB	52.15	53.15	✭	A
MEM/FISHERVILLE	N4DRL	52.27	53.27	✭	L
MEMPHIS	WA4KOG	52.01	53.01	N	
MEMPHIS	K4RDK	52.55	53.55	N	
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
SMYRNA	KJ4RM	449.25	444.25	N	

920 MHZ

HICKORY VALLEY	KA5TAG	907.10	919.10	✭	L
MEM/FISHERVILLE	N4DRL	909.10	921.10	✭	L

1270 MHZ

HICKORY VALLEY	KA5TAG	1271.20	1291.20	✭	L
MEM/FISHERVILLE	N4DRL	1271.10	1291.10	✭	L

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PACKET

BRISTOL	WX4S-1	145.01	N	K
CASTALIAN SPRNGS	WA4PTZ	145.01	✭	K
CHATTANOOGA	W4DSK-1	145.01	N	K
CROSSVILLE	N4LLD-1	145.01	N	K
GALLTN/MUSIC MT	W4PTZ-1	145.01	N	K
GREENEVILLE	K4VZZ-1	147.48	N	K
HORNBEAK	WA4VVX-6	145.01	N	K
JACKSON	WA4VVX-7	145.01	N	K
JACKSON	WB7BOX-1	145.01	N	K
JACKSON	WB7BOX-2	221.11	N	K
KINGSPORT	N4NBX	145.04	N	K
KNOXVILLE	KC4OI	145.01	N	K
KNOXVL/CROSS MT	WA4YON-1	145.01	N	K
LOBOVILLE	WA4VVX-2	145.01	N	K
MEMPHIS	AI5R	145.01	N	K
MEMPHIS	WA4KQQ-1	145.01	N	K
MEMPHIS	WA4KQQ	446.50	N	K
NASHVILLE	W4HHY	145.01	N	K
NASHVILLE	WA4KDC-2	145.01	N	K
NASHVILLE	WA4KDC	433.80	N	DL
PIKEVILLE	K4MJM-1	145.01	✭	K
RIPLEY	WA4VVX-3	145.01	N	K
RIPLEY	WA4VVX-5	443.80	N	DL
ROCKWOOD	AA4KS-1	147.48	N	K
ROCKWOOD MT	KB4NK-1	145.01	✭	K
SEWANEE	WD4CPF-1	145.01	N	K
SEWANEE	WD4CPF-2	433.80	N	DL
SHORT MT	W4YXA-1	145.01	✭	K
SHORT MTN	W4YXA	433.80	N	DL
WAVERLY	WA4VVX-4	433.80	N	DL
WINCHESTER	WD4CPF	145.01	N	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	N	
ALCOLU	N4LWY	144.85	145.45	✭	P
ANDERSON	N4SZ	146.37	146.97	✭	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	✭	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	✭	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	N	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	K4ILT	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	✭	PA
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
COLUMBIA	N4HWU	144.83	145.43	✭	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	N4NUY	147.93	147.33	N	
CONWAY	WD4JMT	144.51	145.11	✭	
DILLON/PEE DEE	NN4N	146.145	146.745	✭	
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	✭	PA
FT JACKSON	WA4PTC	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18	✭	
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.975	147.375	✭	T
GREENWOOD	KB4YF	147.765	147.165	✭	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	✭	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	✭	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47	✭	PA

SERA REPEATER SYMBOLS

✭	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE SOUTH CAROLINA REPEATERS

LAKE MARION	W4DTW	147.825	147.225	✱	A
LANCASTER	W4PAX	146.10	146.70	N	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON	KA4FEC	147.99	147.39	✱	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	N	PA
MT. PLEASANT	K4LWS	147.90	147.30	N	PAT
MYRTLE BEACH	WD4JMT	146.01	146.61	✱	EA
MYRTLE BEACH, N	K4HOG	147.63	147.03	✱	PA
MYT BEA/BRKSVLLE	W4DCD	147.885	147.285	✱	A
N. AUGUSTA	K4FKJ	146.13	146.73	✱	
NEWBERRY	KB4CO	146.085	146.685	N	
ORANGEBURG	K4RDN	147.69	147.09	N	C
PICKENS	WB4YXZ	146.40	147.00	N	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	✱	A
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925	N	PA
ROCK HILL	K4YTZ	146.43	147.03	N	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WD4BJY	146.13	146.73	N	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
ST. MATTHEWS	AD4U	146.22	146.82	N	P
SUMTER	WS4P	146.04	146.64	✱	
SUMTER	WA4UMU	147.615	147.015	✱	EA
SUMTER/SHAW	W4VFR	147.66	147.06	✱	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	✱	RB
CROSS	KB4VFD	222.98	224.58	✱	C
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	✱	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	N	PA
PICKENS/SASFR MT	AJ4N	222.46	224.06	N	
RIDGEVILLE	N4CII	222.48	224.08	✱	C

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	N	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
CHARLESTON	N4MNH	449.30	444.30	✱	A
CROSS	KB4VFD	447.30	442.30	✱	C
LEXINGTON	N4GUP	439.25	421.25	N	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PARIS MT	WB4HKZ	448.10	443.10	N	P
PICKENS/CSRS HD	WA6WAY	447.00	442.00	N	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	448.80	443.80	✱	
SUMTER	WA4UMU	439.25	423.25	✱	V
SUMTER/SHAW	WB4USY	449.525	444.525	✱	P

6 METERS

COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	N	

10 METERS

DONELSON	WA4BZU	29.54	29.64	N	
HICKORY VALLEY	KA5TAG	29.54	29.64	✱	L
JASPER	KD4XX	29.58	29.68	N	

PACKET

ANDERSON	KA4YEA-1	145.07	✱	K
ANDERSON/SAS MT	W4FX-1	145.01	✱	K
CHARLESTON	N4LYF-1	145.01	N	K
CHARLESTON	WD4NUN-9	145.01	N	K
CHARLESTON	WN4Y-5	145.05	N	K
COLUMBIA	N4EOY-1	145.01	✱	K
COLUMBIA	N4HWU-1	145.03	✱	K
COLUMBIA	N4EOY-5	145.05	✱	K
CONWAY	WA4TKM-1	145.01	N	K
CROSS	KB4VFD-4	145.05	✱	K
FLORENCE	W4ULH-1	145.01	N	K
LANCASTER	K4WJR-1	145.01	N	K
SUMTER	WS4P-1	145.01	✱	K

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GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ALBANY	W4MM	144.55	145.15	N	L
ALBANY	W4MM	146.10	146.70	N	
ALBANY	W4MM	146.13	146.73	N	
ALBANY	W4MM	146.22	146.82	N	
ALBANY	W4MM	147.72	147.12	N	K
ALBANY	WB4TFW	147.75	147.15	N	
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	W4PVW	147.885	147.285	✱	EA
ATHENS	WA4BKF	146.145	146.745	✱	A
ATHENS	K4TQU	147.975	147.375	N	
ATLANTA	W4AQL	144.55	145.15	✱	PA
ATLANTA	K4DRQ	144.69	145.29	✱	
ATLANTA	W4DOC	144.75	145.35	N	
ATLANTA	W4DOC	146.22	146.82	N	PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	N	PA
ATLANTA	K4YSB	147.705	147.105	✱	R
ATLANTA	K4SMX	147.795	147.195	N	T
ATLANTA	WD4KDT	147.855	147.255	✱	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	N	
ATLANTA/BELL	W4PME	144.81	145.41	N	
ATLANTA/GPCO	WA4VBX	147.885	147.285	✱	
ATLANTA/MARIETTA	N4NFP	146.055	146.655	✱	EAL
ATLANTA/MARIETTA	N4NEQ	147.94	147.34	✱	PANB
ATLANTA/STONE MT	W4BOC	146.16	146.76	✱	
ATLANTA/SWEAT MT	K4LCI	144.83	145.43	N	EA
ATLANTA/SWEAT MT	N4CLA	144.87	145.47	N	EA
ATLANTA/SWEAT MT	KD4NC	146.13	146.73	N	K
AUGUSTA	W4TUN	144.51	145.11	✱	A
AUGUSTA	AA4UA	144.77	145.37	N	A
AUGUSTA	N4JA	144.89	145.49	✱	
AUGUSTA	W4LWT	146.04	146.64	✱	
AUGUSTA	KT4N	146.34	146.94	N	
AUGUSTA	NA4I	146.385	146.985	✱	PA
AUGUSTA	NI4S	147.72	147.12	N	PA
AUGUSTA	N4BMA	147.78	147.18	N	RPA
AUGUSTA/GRNS CUT	WD4COL	144.63	145.23	N	A
BALDWIN	WD4NHW	147.78	147.18	N	A
BIRMINGHAM(AL)	N4IQT	144.59	145.19	N	
BON AIRE	W4MST	147.615	147.015	✱	
BRUNSWICK	WB4PXX	144.81	145.41	N	P
BRUNSWICK	K4TVE	146.13	146.73	N	
CAIRO	AA4RD	147.795	147.195	N	
CALHOUN	KC4AQS	147.405	146.805	✱	LA
CARROLLTON	W4FWD	146.04	146.64	N	A
CEDARTOWN	W4CMA	147.72	147.12	✱	PA
CLAYTON	WA4BLQ	144.65	145.25	✱	
CLEVELAND/LONG	K4FOW	146.31	146.91	N	
CLEVELAND/LONG	K4FOW	147.615	147.015	N	
COLUMBUS	KA4CEK	144.71	145.31	N	
COLUMBUS	WB4MLE	146.01	146.61	N	
COLUMBUS	N4AGO	146.28	146.88	N	
COLUMBUS-RTTY	K4ACH	144.77	145.37	N	R
CONYERS	WB4JEH	144.63	145.23	N	
CONYERS	KE4SG	147.81	147.21	N	PA
COOLIDGE	N4JBF	144.57	145.17	✱	P
CORDELE	WA4RWS	144.89	145.49	✱	
COVINGTON	WA4ASI	146.325	146.925	N	
CUMMING/SAWNEE	K4BYK	147.75	147.15	N	PAL
DALLAS	K4DVJ	146.25	146.85	N	
DALONEGA	KJ4EV	146.835	147.435	N	
DALTON	KE4UJ	144.63	145.23	N	
DALTON	N4BZJ	144.65	145.25	✱	AO
DALTON	N4BZJ	147.735	147.135	✱	AL
DALTON	KE4LN	147.81	147.21	✱	
DECATUR	W4VTA	144.51	145.11	✱	EA
DOUGLAS	KB4TCU	147.765	147.165	N	
DOUGLASVILLE	KB4EO	147.96	147.36	N	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY/TALONA M	W4HHH	146.385	146.985	✱	A
FAYETTEVILLE	K4UWN	146.085	146.685	N	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	W4SPJ	147.315	147.915	N	
FORT PAYNE(AL)	WA4PJE	147.87	147.27	N	A
GAINESVILLE	W4NSO	146.07	146.67	✱	A
GRIFFIN	K4HYB	144.79	145.39	N	PA
GRIFFIN	K4HYB	146.31	146.91	N	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	KF4UM	147.615	147.015	✱	
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	144.77	145.37	✱	PA
JASPER	W4OOM	146.10	146.70	✱	
JASPER(AL)	WB4ACN	146.30	146.90	N	
JEFFERSON	KB4ZUN	147.825	147.225	N	
JESUP	WA4EQL	146.07	146.67	✱	
JONESBORO	WA4DIW	144.57	145.17	✱	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAFAYETTE	KB4VEK	147.975	147.375	N	
LAGRANGE	KO4R	146.25	146.85	N	O
LAGRANGE	WB4BXO	147.93	147.33	N	EA

MORE GEORGIA REPEATERS

LANETT(AL)	K4DXZ	147.60	147.00	*	
LEEDS(AL)	N4IQT	146.08	146.68	N	
LINEVILLE(AL)	WB4VBA	144.83	145.43	N	
LYONS	K4HAO	146.22	146.82	N	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	*	NBPA
MACON	WA4DDI	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	N	
MARIETTA	WA4QPL	144.89	145.49	N	PA
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	N	
METTER	W4TYM	147.645	147.045	N	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	146.355	146.955	N	A
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	N	
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROCKY TOP MT	K5PRE	146.355	146.955	N	
ROME	K4HNM	147.90	147.30	N	
ROME/MT. ALTO	W4VO	146.34	146.94	*	PA
ROSSVILLE	W4FGQ	144.75	145.35	*	
ROSWELL	N4CLA	147.66	147.06	N	EA
SAVANNAH	K4NLX	146.10	146.70	*	PA
SAVANNAH	W4HBB	146.28	146.88	N	
SAVANNAH	W4HBB	146.37	146.97	N	A
SAVANNAH	K4NLX	147.81	147.21	*	PA
SNELLVILLE	WD4JXR	147.675	147.075	*	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
ST. MARYS	KA4UUB	146.385	146.985	N	
STATESBORO	NC4D	147.705	147.105	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
STONE MT	W4BOC	144.85	145.45	*	
SWAINSBORO	K4VYX	146.19	146.79	N	O
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
THOMPSON	WB4OCB	146.235	146.835	N	C
TOCCOA	KA4DIP	147.93	147.33	*	
TYRONE	W4PSZ	144.61	145.21	N	PA
UNION CITY	WA4UPE	146.025	146.625	N	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	*	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	*	L
WARNER ROBINS	WB4BDP	146.01	146.61	N	
WARNER ROBINS	W4HON	146.25	146.85	N	A
WARNER ROBINS	W4HON	147.90	147.30	N	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WAYNESBORO	WD4COL	144.63	145.23	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	

220 MHZ

ATL/CHESTNUT MT	W4DOC	222.96	224.56	N	L
ATLANTA	N4BLR	222.68	224.28	N	
ATLANTA	W4DOC	222.74	224.34	N	
ATLANTA	N4IQR	223.10	224.70	*	
ATLANTA	KK4C	223.22	224.82	N	PAL
ATLANTA/BELL	W4ZTL	223.02	224.62	N	
ATLANTA/MARIETTA	N4NFP	222.52	224.12	*	PAL
AUGUSTA	AA4UA	222.60	224.20	N	P
BUCHANAN	WB4UPC	222.34	223.94	N	
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	N	L
CANTON	N4KSM	222.92	224.52	N	
CANTON	WB4UPC	223.34	224.94	*	L
CARTERSVILLE	N4GIS	222.48	224.08	N	
CLEVELAND	N4RBT	222.78	224.38	N	
CONYERS	WB4JEH	222.42	224.02	N	
CORNELIA	WS4F	222.50	224.10	N	
CUMMINS/SAWNE MT	K4JSR	223.38	224.98	N	PA
DALTON	N4BZJ	222.44	224.04	*	
DALTON	N4KVC	223.14	224.74	*	ARB
GAINESVILLE	W4NSO	222.30	223.90	*	
JASPER	KB4IZP	222.40	224.00	N	
MARIETTA	WA4QPL	223.30	224.90	N	
PERRY	WL7ACY	223.24	224.84	N	
ROSSVILLE	KC4EV	223.34	224.94	N	
STONE MT	W4BOC	223.16	224.76	*	PA
THOMASVILLE	N4JBF	222.72	224.32	*	A
VALDOSTA	W4APS	222.38	223.98	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	N	
ALBANY	W4MM	449.50	444.50	N	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825	N	NB
ATLANTA	WB8LVH	448.50	443.50	*	
ATLANTA	KE4ZV	448.65	443.65	N	
ATLANTA	W4DOC	449.45	145.67	N	RB
ATLANTA	WB4UWL	449.50	444.50	N	
ATLANTA	N4WQ	449.625	444.625	N	AO
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	W4ZTL	449.15	444.15	N	
ATLANTA/MARIETTA	N4NEQ	449.775	444.775	N	PAL
ATLANTA/MARIETTA	N4NFP	449.85	444.85	*	PA
ATLANTA/SE	WB8LVH	448.55	443.55	*	NB
ATLANTA/STONE MT	W4BOC	449.25	444.25	*	
AUGUSTA	N4JA	447.025	442.025	*	C
AUGUSTA	NI4S	448.15	443.15	N	O
AUGUSTA	NA4I	449.95	444.95	*	O
BRUNSWICK	KB4PXX	439.25	421.25	N	V
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00	N	
CHEAHA MT(AL)	WB4VBA	444.00	445.00	N	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB4JEH	447.55	442.55	N	
COVINGTON	KL7TF	448.75	443.75	N	
DALTON	WA4TIW	449.725	444.725	N	
DECATUR	N3APR	449.10	444.10	N	
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY TALONA M	W4HHH	449.70	444.70	*	
GRIFFIN	WB4GWA	448.90	443.90	N	PA
HIGH PT/LOOKT MT	KB4VEK	448.45	443.45	N	
JASPER/BIG BUCK	N4OKS	448.80	443.80	N	
LANETT(AL)	K4DXZ	447.05	442.05	*	
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
MACON	WB4OLL	444.90	449.90	N	NB
MARIETTA	N4ACJ	448.60	443.60	N	
MARIETTA	K4PQD	449.05	444.05	N	
MARIETTA	N4ACJ	449.325	444.325	N	
MT OGELTHORPE	WB4BFD	449.375	444.375	N	
PERRY	KB4KIN	449.95	444.95	N	
RINGGOLD	KJ4IU	448.925	443.925	N	
ROCKY FACE	AA4EO	447.175	442.175	N	
SMYRNA	N4IBW	449.65	444.65	N	
STONE MT	N4MSE	449.025	444.025	N	
SWEAT MT	N4CLA	448.20	443.20	N	K
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	N	
VALDOSTA	W4APS	449.70	444.70	N	
WALESKA/PNLOG MT	WD4GTJ	448.85	443.85	*	L

1270 MHZ

ATL/CHESTNUT MT	W4DOC	1291.40	1271.40	N	

PACKET

ADEL	KF4JF-1	145.01	N	K
ALBANY	W4MM-1	145.09	N	K
AMICACOLA MT	WB4GQX-4	145.09	N	K
ATLANTA/EAST	KE4ZV-1	145.03	N	K
ATLANTA/EAST	KF4JJ-1	145.03	N	K
AUGUSTA	KT4N-1	145.01	N	K
CLARKSVILLE	W4EAW-1	145.01	N	K
COHUTTA	W4KAU	145.01	N	K
COHUTTA	W4KAU	145.09	N	K
COLUMBUS	K4ABT-1	145.01	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	N	K
FAIRMONT	AA4EO-1	145.09	N	K
FORSYTH	WB4GQX-2	145.01	N	K
HAMPTON	WA4TXT-1	145.01	N	K
LAGRANGE	WB4BXO-1	145.03	N	K
LYONS	N4JWP-1	145.01	N	K
PERRY	KB4KIN-1	145.01	N	K
PERRY	KB4KIN-5	145.05	N	K
PINE MT/HAMILTON	WB4ULJ-1	145.01	N	K
ROME	NC4G-1	145.09	N	K
SAVANNAH	K4NLX-2	145.01	*	K
SAVANNAH	K4NLX-1	145.03	*	K
SYCAMORE	WD4LYV	145.01	N	K
SYCAMORE	WD4LYV	145.05	N	K
WARNER ROBINS	K4AGT-1	145.01	N	K
WARNER ROBINS	WL7ACY-2	145.05	N	K
WARNER ROBINS	WL7ACY-1	145.05	N	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	N	K

10 METERS

ALBANY	W4MM	29.58	29.68	N	L
ATL/MARIETTA	KK4CC	29.54	29.64	*	L
ATLANTA	WB8LVH	29.52	29.62	*	L
CONYERS	AI8K	29.58	29.68	N	P
DALTON	N4BZJ	29.58	29.68	*	AL

6 METERS

ATL/MARIETTA	WA4MPW	52.09	53.09	*	
AUGUSTA	K4EDU	52.03	53.03	N	P
CONYERS	WB4JEH	52.55	53.55	N	
LINEVILLE(AL)	WB4ODA	52.07	53.07	N	
WALESKA/PNLOG MT	WB4UPC	52.05	53.05	*	L

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	N8FWL	144.77	145.37	N	LA
BECKLEY/FLAT TOP	K8BO	146.25	146.85	N	A
BLUEFIELD	W8MOP	144.89	145.49	*	PA
BOLT/BOLT MT	N8DKL	144.57	145.17	*	L
BRIDGEPORT	WB8DKM	147.72	147.12	*	
BUCKHANNON	N8FHE	144.53	145.13	*	AL
BUCKHANNON	N8FHE	144.81	145.41	*	
BUCKHANNON	WD8L	146.25	146.85	*	
CHARLESTON	N8FMD	144.69	145.29	*	L
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CHARLESTON	KD8TC	147.81	147.21	N	C
CHARLESTON/HGTN	K8SLI	147.87	147.27	N	A
CHARLESTON/HTGN	K8SLI	144.81	145.41	N	
CLARKSBURG	N8FMD	146.085	146.685	*	
CLARKSBURG	KE8MR	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
DUNBAR	K8VKI	147.72	147.12	*	
ELK GARDEN	N8FMD	146.145	146.745	*	
FAIRMONT	W8SP	146.30	146.90	N	NB
FLAT TOP/WINTERP	N8BZS	146.025	146.625	*	
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	WB8MZI	146.01	146.61	N	
GRAFTON	WD8LNB	147.975	147.375	N	
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	N	R
HUNTINGTON	W8VA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	N	L
LEON	WB8NMT	147.78	147.18	N	
LOGAN/BLAIR MT	NU8K	144.63	145.23	N	
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	N	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	*	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	N	LPA
MT STORM	K8VNQ	147.705	147.105	N	L
MULLENS/HRNDN MT	KC8IT	147.63	147.03	*	LARB
NEW MARTINSVILLE	WB8CSW	146.34	146.94	N	
NEW MARTINSVLLE	WB8CSW	147.54	146.94	N	NB
OAK HILL	K8CFT	146.19	146.79	*	EA
PARKERSBURG	WA8CRW	146.37	146.97	*	
PARKERSBURG	WA8LLM	147.99	147.39	*	
PARSONS	K8VNQ	144.73	145.33	N	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KC8WL	146.46	147.06	*	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	N	
RAVENSWOOD	WD8JNU	146.10	146.70	N	R
SALT ROCK	WD8MCR	144.51	145.11	N	
SHERRARD	KD8GL	146.115	146.715	*	EAL
SPRUCE KNOB	N8HON	147.885	147.285	*	L
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	KA8SVR	147.75	147.15	N	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	*	
TERRA ALTA	KD8ZR	147.60	147.00	*	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	WB8JGY	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	KE8FR	144.73	145.33	*	A

220 MHZ

FLT TP/WNTRPLACE	N8BZS	222.46	224.06	N	
GRAFTON	WD8LNB	222.88	224.48	N	L
KINGSTON/LICK KB	W8FG	223.14	224.74	*	
WILLIAMSON	KA8YYW	222.54	224.14	*	

440 MHZ

BUCKHANNON	N8FHE	448.10	443.10	*	L
GRAFTON	WD8LNB	447.20	442.20	N	
HUNTINGTON	KA8QYU	449.50	444.50	N	
JANE LEW	N8FMD	449.875	444.875	*	
LK KNOB/KINSTON	N8FRV	449.80	444.80	N	
LOGAN/BLAIR MT	WB8FQJ	449.40	444.40	N	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	N	PAL
MULLENS/HRNDN MT	KC8IT	449.00	444.00	*	RBL
S. CHARLESTON	WB8CQV	449.95	444.95	N	
ST ALBANS	WD8OZT	449.60	444.60	N	

6 METERS

DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB

PACKET

HUNTINGTON	KA8EUU-1	145.01	N	K
LOGAN/BLAIR MT	WB8FQJ-1	145.01	N	K
MORGANTOWN	N8BHI-1	145.01	N	K
ST ALBANS	K8SLI-1	145.01	N	
TERRA ALTA	KD8ZR-1	145.01	*	K
WILLIAMSON	KA8YYW-1	145.01	*	K

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KD4SN	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24	N	PA
ASHLAND	WA8KWH	147.93	147.33	*	A
DEAN	AK4U	144.61	145.21	*	L
DOG FORK MT	N4MWA	147.75	147.15	N	
ELKHORN CITY	WB4WAU	147.60	147.00	N	PA
FLAT GAP	KB4NDB	147.69	147.09	N	O
GRAYSON	KF4JO	146.10	146.70	N	
GUTHRIE	KA4NNE	146.205	146.805	N	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	N	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	N	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MAYTOWN	AK4U	146.28	146.88	*	L
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	N	
MT. STERLING	WD4KNE	147.745	147.145	N	
MT. STERLING	WD4KNE	147.93	147.33	N	
PAINTSVILLE	AK4U	146.19	146.79	*	L
PHELPS	KJ4YK	147.69	147.09	*	
PIKEVILLE	N4IWZ	144.55	145.15	*	PA
PIKEVILLE	N4IXA	146.25	146.85	N	EAL
PIKEVILLE	WB4GEL	147.87	147.27	*	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	RB
SALYERSVILLE	AK4U	147.90	147.30	*	L
WINCHESTER	WB4ASZ	147.72	147.12	*	EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72	N	EA
PIKEVILLE	WB4F	222.98	224.58	N	
PIKEVILLE	N4ETG	223.02	224.62	N	A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	N	
GUTHRIE	KA4ZKL	52.23	53.23	N	

PACKET

ASHLAND	KD4SN-1	145.01	N	K
BEREA	KA4MZY-1	145.01	N	K
ELIZABETHTOWN	W4BEJ-1	145.01	N	K
ELKHORN CITY	WB4WAU-1	145.01	N	K
FRANKFORT	KB4AGA	145.01	N	K
FRANKFORT	KB4AGA-1	145.01	N	K
GREENSBURG	N4ICS	145.01	N	K
HAZARD	K4AVX-1	145.01	N	K
LEXINGTON	W4AUZ-1	145.01	N	K
LEXINGTON	KF4NB-BBS	145.01	N	K
LEXINGTON	WA4JAV-BB	145.01	N	K
LOUISA	WA4SWF-1	145.01	N	K
LOUISVILLE	W4MOP-1	145.01	N	K
PRESTONSBURG	WA4FHK-1	145.01	N	K
VERSAILLES	WB9TPG-1	145.01	N	K
WHITESBURG	KB4TTQ-1	145.01	N	K
WINCHESTER	WB4FDK-1	145.01	N	K
WINCHESTER	WB4FDK	145.01	N	K

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LOOKING BACK PART II

Continued From Page 1

Their established coordination organization attracted repeater owners in Virginia and South Carolina, and both states joined. The name underwent its first change. NCFMRA became CVRA - Carolinas-Virginia Repeater Association, Inc.

Growth in the area of repeaters was heaviest in the five years from 1974 to 1979, where over 155 repeaters were added in the three states on 2-meters alone.

Associate membership in CVRA in 1977 stood at 1,270, with 157 repeaters in the three states.

In 1980, Tennessee repeater owners by a majority vote, asked to become a part of CVRA, making our fourth district.

A few months later, West Virginia repeater owners followed suite and joined as a fifth state.

A new name for the organization was needed to reflect the broad area now being covered under the coordination umbrella. Thus the change, CVRA-Southeastern Repeater Association, Inc. grew from CVRA. Finally in 1987, CVRA was to be no more. The letters were dropped from the Corporate identity and substituted with SERA or Southeastern Repeater Association, Inc.

The February 1984 SERA repeater index stood at 631 repeaters, only 200 shy of the 1974 ARRL Nationwide Repeater Directory, and 181 more than SERA had in 1980.

SERA finally received Tax Exempt status from the IRS in 1982, thanks to our Treasurer Ray Adams, N4BAQ.

History was again made in 1985 as repeater owners in Eastern Kentucky, covering 20 counties voted to associate themselves with SERA, making a sixth District.

In November of 1985, the long awaited union between Georgia repeater owners and SERA became a reality as the board okayed the Georgia repeater owners petition, making them the 7th State for SERA.

Our Status Today

Today, our seven state repeater index includes over 1,000 repeaters, covering a population of over 57,000 Amateur operators in the Southeast.

SERA is known nation-wide as the most respected coordination council with experience and policies which have been a blueprint for many other councils getting organized.

The dedicated Amateurs who uphold the policies of SERA have done a job second to none. They are to be commended and deserve the support and credit due them. Many thousands of hours are devoted free by Officers, Directors, Vice Directors and appointees of this organization, to keep the one ingredient so desired by the early organizers - Quality.

Maintaining quality with quantity if tough, but with continued work, and continued support, we all can continue those ideals.

The organization deserves nothing less!

— Wayne C. Williams, K4MOB
Editor & Publisher

Clubs Urged To Use Hamfest Listing

The Repeater Journal publishes one of the largest up-to-date hamfest calendars in the United States, each issue. This past February, we listed 82 different shows or events scheduled (confirmed and unconfirmed) for the year of 1988.

As we prepare each listing for upcoming Journals, unconfirmed shows are deleted for that particular issue. For instance, hamfests that were not confirmed between the dates of May and July 31 were deleted from this issue.

This is keeping with our practice of presenting all shows, confirmed or not, up until press time for the particular Journal that will cover these dates.

If shows are not confirmed, and the next issue of the Journal will not be published until AFTER that show date, we delete the show listing.

Clubs and Hamfest sponsors are urged to send their show dates to the Repeater Journal editor as soon as the dates are established each year. Any clubs who have established dates for future years, may include those dates, as long as they are confirmed to the editor, who will put them on the data base, and refer to them as the following years come around.

"I think some of the clubs who don't bother to list their show dates are missing out on some valuable FREE publicity," said Wayne Williams, editor. "We have numerous professional "flea-marketeers" who travel around the country, who subscribe to the Repeater Journal as their most reliable source of Hamfest information in the Southeast."

Many dealers, and some manufacturers who receive the Journal, map out their plans for the coming year.

More Plane Crash Activity By WY Hams

— by Ted Wolfe, WD4KHL, from information provided by Rick Gillespie, N8HON.

It was around 10:20 on the evening of Feb. 21, 1988, when authorities received word that a small, single engine Cessna with two Charleston area men aboard had radioed it was attempting an emergency landing on U.S. Route 33 near Ellamore close by the Randolph/Upshur County line.

West Virginia state trooper Rick Gillespie, who is also a ham with the call N8HON, notified Dick Fowler, N8FMD, Clarksburg, who in turn contacted Dick Burnside, WD8PAD. Delf Norona, WA8NDY, teamed up with state troopers to monitor the ELT (Emergency Locator Transmitter) signal from the downed aircraft. With Jim Andrew, N8FHE, assisting, the plane was located in a relatively short time near the highway where it struck a large tree. The two men aboard were dead.

Rick writes that they had another alert on Saturday, Mar. 12, indicating another plane might be down in or near the Upshur County community of Bailey Ridge. No ELT signal was received and a three hour search was terminated when no wreckage was found and witnesses were located in the community who said they saw the subject aircraft pull out of its low flying path and proceed on course toward Buckhannon.

Hams in that area, according to Gillespie, have established the Mountain Amateur Radio Association, Inc., based in Franklin, WV.

Already members have signed up from Franklin/Pendleton Co.; Buckhannon/Upshur Co.; Clarksburg/Harrison Co.; Moorefield/Hardy Co.; Glen Dale/Marshall Co.; and Harrisonburg/Rockingham Co., Va.

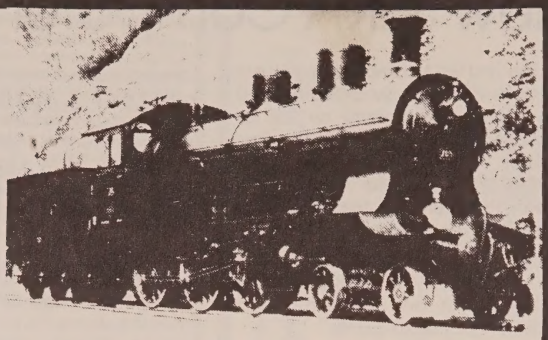
Hamtronics REP 100 Problems

Continued From Page 9

mica and leave the .01 there if one is there.

I have probably overdesigned in making these modifications. I had rather overdesign than to make the trip to the repeater site to eliminate desense. All problems mentioned have been completely eliminated on the N4AJ, AA4UA, and the WD4COL repeaters. I have not yet had any experiences with the 220 MHZ and the 440 MHZ HAMTRONICS repeaters, but I suspect they could also suffer the same problems, cureable by similar modifications.

"Back On Track"



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Willi KA4WPM - 202 E. Oakview Rd., Asheville, NC 28806 - 704-253-0269
Phil KA4CAC - Rt. 5, Box 438, Candler, NC 28715 - 704-667-3212
Bruce N4MTC - 65 Old Starnes Cove, Asheville, NC 28806 - 704-667-3496

DIRECTIONS:

From US 19-23 to NC 63, approximately 2 miles; turn right on Old County Home Rd.; turn right on Lees Creek Rd.; right on Erwin Hills Rd.; to Hamfest Site on left.

New SERA Computer On Line & Working

The 2nd SERA computer was put in service in late February for testing, and early March permanently on line for Repeater Data-base information updates.

The SERA Repeater Index in this issue of the Journal is the first one to come off the new machine.

"We still have a few glitches to work out," said David, KA4LVO, "But Wayne is sticking with it, and the transition is proceeding rather smoothly."

David is still updating software in the two systems to enable more flexibility in passing information to Directors.

"For the first time in 17 years, we are actually computerizing a repeater data-base, containing all pertinent information on all repeaters," said Wayne, K4MOB.

"That will be my job from here out."

In the past, the SERA computer, with only one person doing all the keyboarding carried the massive membership listings, cross-indexing, maillists, member status, as well as listings for all the repeaters in the 7 states, and only a small bit of information other than what was printed in the Journal.

"We have needed this new computer, and a second hand for some time now," Wayne said, "I think the Board was wise in going along with a second machine." "We already have compiled more additional information on computer in the last 6 weeks, than has been put on in years."

Wayne didn't indicate how many hours he and David have spent on the new system, but it has certainly been hundreds.

Once the new software written by David was in place-which incidentally has been dubbed "WARD"-soft (David Ward), the 2nd computer was downloaded with all information SERA had on file.

Then began the massive task of filling each of the 34 fields devoted to EACH repeater. Information other than that published in the Journal includes: (1) Date On experimentally, (2) On permanently, (3) Date Coordinated, (4) by whom, (5) Sponsor, (6) all repeater specs, including power, HAAT, actual location, longitude & latitude, ARRL grid locator, control frequencies, linking frequencies, and other information. Also included is a cross-reference of Full member representatives, their call, address, the repeater membership numbers from last year, and the current number.

"It takes quite a while to keyboard all this information for each repeater," David said, "But it's getting done, a bit at a time."

Presently, all 1988, 1987, and most of 1986 Full Member applications have been gone through picking up data on repeaters. Plans to continue through 1985 applications, then once software is written, we will print out a data-base copy of what's on the computer for each repeater, send it to the repeater owner and ask him to complete, correct or add any missing information. Once this is done for all 1,076 repeaters, our data-base will be complete. We then will only have to insert updates as they come in, and data on new repeaters just coordinated.

"Our goal is to have all this in place for a massive mailing in October or November on this year," Wayne said.

"Our Directors will be getting us names and addresses of non-member repeaters, so we can match them to our data printout sheets," David added.

Future plans also include sending Directors printouts at the close of each quarter. (1) A complete new printout of the entire state, and (2) a printout of only repeaters that have had changes from the last list, with actual changes highlighted in bold face.

"We've still got a lot of work to do, but with the dilligent help from David I have had in the past, and his total dedication to the organization, we'll get it finished in time," Wayne said.

"He's gonna change his tune, when we get the two full file cabinets of data dating back to 1971 and pile them on his nifty new computer console," David said laughingly.

Financial Report

—by Ray Adams, N4BAQ

SERA Treasurer

SouthEastern Repeater Association, Inc.

FINANCIAL REPORT FROM JANUARY 1 TO MARCH 31 1984, 1985, 1986, 1987 AND 1988

Dues REVENUES	$4/$8 1984	$4/$8 1985	$5/10 1986	$6/15 1987	$6/$15 1988
Advertising	$2,526.50	$2,538.75	$1,486.25	$ 2,789.50	$ 2,618.50
Associate Membership Dues	2,231.00	3,235.88	3,090.00	5,053.50	3,682.00
Full Membership Dues	1,002.00	2,249.00	2,018.50	2,344.00	2,502.00
Decals		52.50	10.50	16.00	114.50
Postage - includes HOT-P		3.00	59.50	76.50	58.50
Hats			18.00	33.00	18.00
Contributions			182.00	102.00	-0-
Interest			46.76	111.40	147.68
Other	22.75	5.50	58.39	11.50	6.00
	$5,782.25	$8,084.63	$6,969.90	$10,537.40	$ 9,147.18
EXPENSES					
Journal mailing	$ 673.25	$ 473.95	$1,166.09	$ 756.14	$ 563.47
Journal printing	3,144.28	4,018.81	2,952.13	4,821.29	3,778.31
Travel and Meetings	534.19	768.68	962.84	1,250.70	-0-
Miscellaneous	-0-	-0-	-0-	59.95	25.00
Office expenses	8.67	142.96	-0-	35.00	49.20
Postage - other than journal	33.81	83.35	94.16	38.38	225.02
Printing - other than journal	62.80	813.27	-0-	284.00	35.64
Telephone	105.41	142.91	138.54	78.68	243.49
Other	2.35	-0-	-0-	-0-	-0-
	$4,564.76	$6,443.93	$5,313.76	$ 7,324.14	$ 4,920.13
EXCESS OF REVENUES OVER EXPENSES	$1,217.49	$1,640.70	$1,656.14	$ 3,213.26	$ 4,227.05
Balances at beginning of year					
Expenses advanced	$ 800.00	$ 900.00	$ 950.00	$ 900.00	$ 900.00
Invested in office machines	1,792.00	1,344.00	896.00	2,571.63	1,696.00
Cash in bank	2,507.39	1,413.04	2,107.05	5,690.15	7,252.05
	$5,099.39	$3,657.04	$3,953.05	$ 9,161.78	$ 9,848.05
EQUITY TO ACCOUNT FOR	$6,316.88	$5,297.74	$5,609.19	$12,375.04	$14,075.10
Less: Expenses advanced	$ 800.00	$ 900.00	$ 300.00	$ 900.00	$ 900.00
Invested in office machines	1,792.00	1,344.00	896.00	2,571.63	3,053.29
	$2,592.00	$2,244.00	$1,196.00	$ 3,471.63	$ 3,953.29
CASH IN BANK	$3,724.88	$3,053.74	$4,413.19	$ 8,903.41	$10,121.81

REPEATER JOURNAL ADVERTISING RATES

Effective 1 January 1987

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue–Dec. 20 MAY Issue–Mar. 20
AUG. Issue–June 20 NOV Issue–Sep. 20

Advertising copy MUST be mailed to: REPEATER JOURNAL ADV. MANAGER, SHARON WARD, 5573 Vienna-Dozier Rd., Pfafftown, N.C. 27040.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: One additional spot color, on available color pages is available for an additional $25.00 charge per ad. FULL COLOR: Is available on the Inside Front and Inside Back covers. 100-130 Line separation negatives, right reading, emulsion down are required. No extra charge for full bleed. Due to Journal width being 1/4-in wider than national magazines, the color will bleed to outer edge, with a color stripe on inner edge of page, if separations do not fill width.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

REPEATER JOURNAL ADVERTISING SIZES AND RATES

Ins. Frt. or Ins. Bk. Cover (Full Color)	8-1/2"x11"	$300.00
Full Page	7-1/8" x 9-7/8"	85.00
Full Page Bleed (any sides)	8-1/2" x 11"	100.00
2/3 Page (Vertical)	4-5/8" x 9-7/8"	65.00
1/2 Page (Horizontal)	7-1/8" x 4-3/4"	48.00
1/2 Page (Vertical)	3-1/2" x 9-7/8"	48.00
1/2 Page (Vertical 2-col)	4-5/8" x 7-1/8"	48.00
1/3 Page (Vertical Only)	2-1/4" x 9-7/8"	35.00
1/4 Page (Vertical Only)	3-1/2" x 4-3/4"	28.00
1/6 Page (Vertical)	2-1/4" x 4-3/4"	18.00
1/6 Page (Horizontal)	4-3/4" x 2-1/4"	18.00
1/12 Page (Vertical Only)	2-1/4" x 2-1/4"	10.00
Business Cards - Standard Size	(4 Issue Contract Only)	16.00
		In Advance

Classified Ads (30 Words Maximum per ad) In Advance 3.00
Color (1 additional color plus black) An Size Ad 25.00

Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

Not $300 a page, Not even $200 a page. The Repeater Journal advertising rates and circulation provide you the best dollar value of any Amateur advertising medium in the Southeast. Repeater Journal Advertising PAYS FOR ITSELF! Big circulation National Magazines are Great for results, but do the results pay for the high cost of advertising. Concentrated circulation, low rates, all give the Repeater Journal advertiser the most for his dollar. Call or Write our Advertising Manager today!

Yes! I Want to Support SERA - Sign Me UP for the Journal!

SERA ASSOCIATE MEMBERSHIP APPLICATION

Name _____ Call _____

Address _____ Date _____

City _____ Zip _____

Phone (___) _____ Member ARRL ( ) Yes ( ) No

Enclosed is $ _____ for _____ Year(s) Mail Application & Fee To:

SERA Associate Membership
Post Office Box 24292
Winston-Salem, N.C. 27114-4292

NEW _____ RENEW _____ HOT-P _____
$6.00 Year (Maximum 2 Years) $10.50 Max. 1 Year

You Will Receive the Next Journal

RJ-6-88

Support Your Official COORDINATOR! Join SERA Today!

Make a copy of this application and pass it to a friend. Encourage him to help support the coordination council that for 17 years has worked to keep your repeater in the clear. Your membership guarantees a continuation of this work. Associate Members (repeater users) will receive the REPEATER JOURNAL quarterly. If you are a present Associate Member, you may use this application to renew, change address, or change callsign.

Deadlines for membership are the 15th of the month prior to Publication, to receive the next upcoming Journal. (Jan. 15, Apr. 15, Jul. 15 and Oct. 15). Applications received after deadline will receive the next Journal 3 months away.

VEC EXAMINATIONS

Southeastern Virginia

May 14 Portsmouth Amateur Radio Club (ARRL exam)
Contact - Art Thiemens AA4AT 484-2857

Jun. 4 Virginia Beach Amateur Radio Club (ARRL exam)
Contact - Tom Weikel KA4UNC 340-7697

Jul. 16 Chesapeake DX Assn. (W5YI exam)
Contact - Bill Verebely KC4YX 424-4764

Aug. 1 Hampton Roads Radio Assn. (W5YI exam)
Contact - Bill Runyon N4BDH 487-8611

Pre-registration is appreciated, but walk-ins are okay.

Bring your **original** and a **photo copy** of your current license and any license upgrade certificates.

For ARRL Exams - submit a $4.55 check payable to ARRL/VEC.

For W5YI Exams - cost is $4.55.

For Ches. Dx Assn examx - make check payable to Bill Verebely/VEC.

For HRRA exams - make check payable to HRRA/VEC.

When pre-registering, send copy of completed FCC Form 610 with your check and license photo copy.

TEARC Exam Dates:

Kernersville, N.C.
1st Saturday each month
Kernersville Public Library
Time: 9:30 A.M. - Exam Fee $4.50
Walk-ins allowed.
Contact Bob Gates, KJ4IC
Home Telephone: 919/996-5196

May 14, 1988 - Gibsonville, N.C.
Gibsonville Recreation Center
Time: 9:30 A.M. - Exam Fee $4.50
Walk-ins allowed.
Contact Wayne Hutchins WB4IKY
Home Telephone: 919/449-6073

Lexington, N.C.
April 16 - June 18 - Aug. 20 - Oct. 15
Lexington Recreation Center
Time: 9:00 A.M. - Exam Fee $4.50
Walk-ins allowed.
Contact Rae Everhart, K4SWN
Home Telephone: 704/249-8734

Peachtree City, Ga.
May 7 - June 4 - August 6
October 1 - November 5 - December 3
Peachtree City City Hall
Time: 8:00 A.M. - Exam Fee $4.50
Walk-ins allowed.
Contact Veronica Hicks, N4ODI
Telephone: 404/927-6296

For exam information in Wilmington, N.C. area, contact Don Conaway, AF4J - Telephone 919/791-9460.

For information concerning other exam sessions, call Jim Williamson, 919/869-6637.

SOUTH CAROLINA
COLUMBIA

WCARS/VEC exams will be held in Columbia, with walk-ins accepted. Exams start promptly at 9:00 a.m. For complete information contact: Ray Rogers, N4WR, P.O. Box 550, Chapin, South Carolina 29036. Phone: (803) 345-3373.

Schedule

June 18 **August 20**
October 15 **December 17**

WEST VIRGINIA
BLUEFIELD

W5YI/VEC walkin exams begin at 9 a.m. on dates listed. Please bring appropriate materials and information when you come. For complete information Call: (703) 326-2411. The fee for examination is $4.55.

Schedule

Satruday - August 13
Saturday - November 12th

WEST VIRGINIA
CHARLESTON

The Kanawha Valley, W5YI/VEC group will administer examinations, novice through Extra class beginning at 9:00 a.m. at Holy Trinity Catholic Church in Nitro. No Pre-registration required. For further information, the St. Albans 40-00 repeater will be available for talk-in.

Schedule

2nd Saturday Every Month

WAVE Exams - Raleigh, N.C.

The Wake Amateur VEs are conducting examination sessions at St. Augustine's College, Fine Arts Bldg. at 8:00 a.m.

Pre-registration is requested, however limited walk-ins accepted up to 30 minutes prior to exam time.

Pre-register: J.M. Johnson, WM4P, 2118 Lyndhurst Dr., Raleigh, N.C. 27610.

Raleigh Schedule: May 21 & Aug. 13

New Bern ARC/ Installs Officers

The New Bern ARC (NC) installed its newly elected officers for 1988: President, Ray Hemphill, (KI4SJ); Vice President, Mac Eustler, (WA0ZGL); Secretary, Doris Fields, (KA3KEY); Treasurer, Tom Tomlinson, (N4LNT), Membership Secy., Bill Creighton, (N4RGL); Communications, Dallas Waters, (W4SOT); and Trustee, Tommy Phelps, (WA4EME).

The nearly 100 active members come from Craven, Carteret, Pamlico, and Jones counties area. The NBARC conducts weekly radio drills to train its members for emergencies such as hurricanes. It operates a modern repeater that provides communications in and beyond membership area with direct linking to a Grifton, NC repeater. The group provides volunteer examining team members to those taking FCC authorized licensing exams. Members meet monthly with a rounded technical and social program.

Membership is open to all radio amateurs. Materials are available through the club for those wishing to earn the beginning class license (Novice). Further information can be obtained from Ray Hemphill, 633-3359.

WA4ZTH
Bob Wallace
KNOXVILLE. TENNESSEE

ALL NEW
SERA
Name Badge
$6.00 postpaid

1-1/2"X3" GREEN ON WHITE
Mercury Engraving
P.O. Box 22338
Knoxville. TN 37933

umpteenth annual

Durham Hamfest

Vendors
Goodies
Fun

Swap & Trade
Old Friends
Y'all Come

Prizes Galore

Prizes Galore

DURHAM FM ASSOCIATION
THE BULL CITY REPEATER
DURHAM, N.C.

Computers too

Other Door Prizes

Saturday, May 14th 1988

Lower Rear Deck South Square Mall
Covered - Rain or Shine

8 A.M. until 4 P.M.
$4.00 at the door (still the same)
Free Tail Gating
Tables for Rent

the Friendly Repeater
WA4WTX/R
Talk In 147.825/.225

Walk In FCC Exams . . . (Bring License and Completed Form 610)

the Durham FM Association

For Information. . . . . W4ZUS - Mick Rankin (919) 544-3556

AMSAT Phase 3-C May Launch Sked!

— by Fred Mair, W5YI

Get your station ready for the most powerful and capable OSCAR satellite ever. Arianespace, the European Space Agency announced that the launch of AMSAT's Phase 3-C spacecraft is set for May 26.

The Amateur satellite will be launched from the Kourou Space Center in French Guyana, on the Northeast coast of South America.

Phase 3-C's elliptical orbit will vary from 22,000 miles to a low of 125 miles. A release for general Amateur use is not expected until July.

The P3-C satellite has three transponders on board, as well as the RUDAK digital packet communications experiment.

Here are the latest revised frequencies:

Mode "B" (50 Watts PEP)
Input: (Uplink) 435.42—435.57 Mhz
Output: (Downlink) 145.42—145.975 Mhz.
General Beacon: 145.812 Mhz (CW/RTTY)

Mode "L" (Primary Transponder)
Input: (Uplink) 1269.62—1269.33 Mhz.
Output: (Downlink) 435.715—436.005 Mhz.
Gen. Beacon: 435.651 Mhz (PSK/CW/RTTY).

Mode "JL" (Secondary Transponder)
Input: (Uplink) 144.425—144.475 Mhz.
Output: (Downlink) 435.99—435.94 Mhz.

Mode "S"
Input: (Uplink) 435.601—435.637 Mhz.
Output: (Downlink) 2400.711—2400.747 Mhz.
Gen. Beacon: 2400.325 Mhz.

RUDAK, a worldwide independent packet data channel, using separate receive and transmit frequencies will operate on Mode "L" with 50-watts PEP. The Uplink frequency will be 1269.70 Mhz. (2400 bits/sec DPSK). The Downlink operates on 435.677 Mhz. at 400 bits/sec PSK.

Classified Advertising

FOR SALE: Model 32 Teletype unit with tape puncher. VGC. $200.00. Model 5200 Teletype, $300.00. Call West Antenna Service. U.S. WATTS 1-800-334-4252. N.C. WATTS 1-800-632-0389.

220 ANTENNA ARRAY Cushcraft 4-stacked A220-11s with two phasing harnesses and poles, plus harness wiring for 4. Good Condition. Still assembled, on the ground. You pick up. $150.00. Call Wayne (919) 993-5881.

REPEATER JOURNALS for a friend? Send a friend a FREE Repeater Journal. Send his name and address on a card prior to July 1 and we'll send him a free August Journal. Mail Cards to SERA Membership, P.O. Box 24292, Winston-Salem, N.C. 27114. July 1st is deadline.

SERA DECALS, 50-cents. & SASE. SERA Hats $7.00, includes UPS shipping. Good while supplies last. Write SERA Membership, P.O. Box 24292, Winston-Salem, N.C. 27114.

Did You Know!

SERA territory covers most of seven states and involves over 1,000 repeaters. This is an area comprised of over 50,000 hams, and covers an area of over 250,000 square miles.

This makes repeater coverage average 1 repeater every 250 square miles.

GRAND-DADDY'S COMING BACK

Watch For It! More Details Later!

31st Annual SARC Hamfest

SHELBY

Sept 3rd & 4th - Labor Day Weekend!

The Grand-daddy of them all!

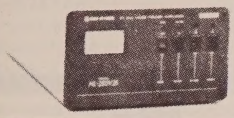
REMEMBER LABOR DAY WEEKEND

Business 74, East of Shelby, N.C. At Cleveland County Fairgrounds

TOKYO HY-POWER AMPLIFIERS

NOW! 250 WATTS on 2-METERS HL-250V/25

Call



Need a "B-I-G" signal on 2-meters. The HL-250V will fill the bill. 25-watts in drives this magnificent brute to a sizzling 250-watts output whether SSB, CW or FM. Has built-in GaAsFet Preamp, accurate Watt meter, Lo-Hi output switch, mode switched, On/off switch for amp and preamp. The HL-250V is only for the SERIOUS 2-meter DXer. Draws approximately 41 amps at full power output. Fan cooled!

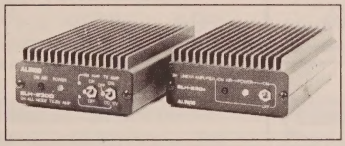
Compact 2-meter amplifier, designed for talk power from your handheld. 1/2-watt delivers approximately 15-watts. 1 to 5 watts in, delivers a full 35-watts out. All mode, has variable sensitivity GaAsFet preamp, light bar output meter, and mobile bracket. Amp and preamp on/off switches. Today's BEST $$ value in a handheld amplifier.

NEW! HL-37V
All Mode AMP
For Handi-talkies!

$87.95

HL-30V $69.95

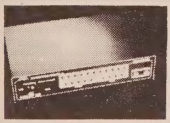
ALINCO VHF LINEAR AMPLIFIERS



ELH-230D	ELH-230G	ELH-260D
140-150MHz	140-150MHz	140-150MHz
All Mode (FM SSB CW)	All Mode (FM SSB CW)	All Mode (FM SSB CW)
200mw-5W Input Power	200mw-5W Input Power	200mw-5W Input Power
3W in = 30W Output Power	3W in = 30W Output Power	3W in = 50W Output Power
DC13.8V/4.5A	DC13.8V/4.5A	DC13.8V/10A
15dB Gain Rx Pre-Amp	50 ohms	10dB Gain Rx Pre-Amp
50 ohms	3.58" x 1.61" x 6.42"	50 ohms
3.58" x 1.61" x 6.42"	1.12 lbs. $79.95	3.58" x 1.61" x 8.50"
1.12 lbs. $85.95		1.50 lbs. $129.95

AEA PK-232 Multimode Data Controller

The AEA PK-232 is the Controller everyone's talking about. You can work RTTY, CW, ASCII, AMTOR, BAUDOT, PACKET and WEFAX, all from this one unit on VHF/UHF or HF. Now can be interfaced to your Commodore with the COM-PACRATT.



The One to Have If you Love Digital!

$289.95 Add $3.00 UPS Shipping

PC-PAKRATT 24.95
COM-PACRATT 59.95
PC-FAX 24.95

PLEASE NOTE: Orders from this advertisement, include $2.00 shipping UPS, unless otherwise noted. N.C. Residents add 5% Sales Tax. Phone order CODs add $2.50. NO Credit Cards Please. Prices subject to change without notice or obligation. All items in stock.

Limited Quantities on THL Amplifiers!

2-METERS - GaAsFet Preamps - All Mode!

HL-180V 1-5/10-15/25-30W In 180W Out . . . $299.95
HL-160V/25A 25-30W In 160+W Out $239.95

440 MHZ - GaAsFet Preamps-All Mode!

HL-30U 2-5W in 30W Out $159.95
HL-60U 10-15W in 60W Out $189.95

HRA-2 Pole Mt. GaAsFet Preamp 2-M $129.95
HRA-7 Pole Mt. GaAsFet Preamp 440 Mhz. $129.95

220 MHZ is HOT! We got Accessories!

HL-22V Handheld Amplifier
Only $89.95

Turn your tiny 1-watt into a "brute" with the HL-22V. 1 to 5 watts input delivers a full 25-watt out. FM Only. Has GaAsFet preamp, mobile bracket.

Antennas For the 220Mhz. Handheld!
5/8 Vocom collapsible 15.95
1/2-wave AEA Hotrod 16.95
Larsen Helical 1/4-wave 18.00

100 Watts on 220
Tokyo Hy-Power HL-102V

Limited Qty. at **$239.95**

Take your old 10-watt crystal 220 rig, or your new 25-watt synthesized 220 rig and give it 100-watts talk power with the HL-102V. Has GaAsFet preamp. Lo/Hi power output switched. All Mode. It just doesn't get any better than this!

LARSEN MOBILE ANTENNAS

There are none finer!

5/8 Mobile for 2-M, 220, Colinear for 440, Dual Band, Duplexers, 10M Mobile, Quarter Wave, H/T Larsen KulDuckies. New! Larsen "On-Glass" 1/2-wave Antennas. We also stock Larsen antenna parts and accessories. Call for prices and information. Williams has the largest variety and stock of Larsen in the Southeast!

BATTERIES

We stock batteries for ALL Santec radios. Call for prices on ST-20T Santecs, for older HT-1200, ST-144 and ST-142, $32.00 prepaid shipping. YAESU FT-207 & FT-208 and WILSON MK-11 and MK-IV - $32.00 prepaid shipping. ALINCO ALX-T-2T, call

ARRL Books

We stock most major ARRL publications, including all the License Manuals and code Tapes. ARRL Repeater Directory, 1988 Handbook, logbooks, packet, FCC Rule Book, antenna books and more.

AEA Isopole (2-M & 220) $45.00
We Pay UPS Shipping!
AEA Isopole (440 mhz) $65.00

1988 CALLBOOKS! Add $2.00 UPS Shipping
U.S. - $22.95
Foreign - $23.95
Both Only - $45.00

WILLIAMS RADIO SALES

600 LAKEDALE ROAD, DEPT. R
COLFAX, N.C. 27235

For Orders ONLY - Call Toll Free
1-800-523-0347
NC Call (919) 993-5881
NOON to 10:00 PM EST

REPEATER-CLUB-NET SERVICE PAGE

THE APPALACHIAN REPEATER ASSOCIATION

146.955 ONEIDA PEAK/BLFD. KD8MZ	147.03 HERNDON MT. KC8IT	145.31 LAYLAND/MANN MT. N88ZS
145.17 BOLT MT. N8DKL	444.625 BLUEFIELD, VA. N8GVJ	146.625 HUFF KNOB/FLT TOP N88ZS
444.0 HERNDON MT. N8GYH	145.01 BLUEFIELD, A WB4BBF-1	444.8 LICK KNOB N8FRV

YOUR HOME TOWN REPEATERS

DEALERS, BUSINESSMEN

YOUR MESSAGE HERE
$16.00 A YEAR PREPAID
(4-Issue Contract)
WRITE OUR SALES MANAGER
(1-Year-$16.00 Minimum Contract)

Orin B. Harding
Senior Account Manager
Building Services Division
Honeywell
Honeywell Inc.
4 Terrace Way
Greensboro
North Carolina 27403
919/294-9244
WA4TBR

THE SERA NEWS NET
Wednesdays at 8:30 PM
Look For Us and The News!
The SERA News Net, the largest on the East Coast is sponsored by CVRA-SERA in cooperation with the Piedmont Coastal Repeater Network of NC, and the N4VL anchor repeater for the NW one-way linking system. News moderator is K4MOB, Wayne, Editor, Repeater Journal.

VOLUNTEER EXAMINATIONS
BLUEFIELD, WEST VIRGINIA
WALKIN 9AM FOR $4.55 FEE
SAT FEBRUARY 13TH
SUN MAY 8TH (Bluefield Hamfest Date)
SAT AUGUST 13TH
SAT NOVEMBER 12TH
For info: 703 326-2411 W5YI-VEC

WORLDWIDE DISTRIBUTION
HAM RADIO OUTLET
Neil R. Foster
Manager
KC4MJ
6071 Buford Hwy.
Atlanta, GA 30340
(Doraville)
(404) 263-0700
(800) 854-6046
ANAHEIM ATLANTA BURLINGAME OAKLAND
PHOENIX SAN DIEGO VAN NUYS

Professional Products, Inc.
WA4SFL
Doug Mayo
Technical Operations Manager
1031 Technology Park Drive
Richmond, Virginia 23060-4555
Telephone (804) 264-4666

Welcome to
W4LPL/REPEATER
"The Red Carpet Repeater"
Fayetteville, North Carolina
147.93/33
Proudly Serving our Community
and the best darn Hams in the world

The Amateur News and Information
NET
Mondays. . . . . 9:00 p.m.
145.11 **REPEATER**
RICHMOND, VA
K4OJE N4EXQ OTHERS
Club, ARRL, ARES, DX, FCC Information

WELCOME TO DISMAL PEAK!
- New River Valley
- Southwestern Virginia

N4AZJ/R El.4150 Pearisburg 147.135
I-77 & I-81
Dismal Peak Repeater Society
412 Ridgeway Drive Bluefield, VA 24605

Olde Towne Properties of Va., Inc.
MLS
DINA MAYO
Realtor
KA4NYB
1125 Hanover Green Drive Bus. (804) 746-1040
Mechanicsville, Virginia 23111 Res. (804) 227-3422

Serving Eastern North Carolina
From the Capital
To The Coast
147.09 145.35
Repeaters
Greenville, N.C.

444.650 RICHMOND
444.850 PETERSBURG
147.39 REPEATER
PETERSBURG, VA
The K4ARO Repeaters
Covering Central and Southside Va.
RICHMOND K4ARO, K4OJE, N4EHJ
PETERSBURG K4ARO

Welcome to
N8FHE REPEATER SYSTEM
Serving Buckhannon, WV
and surrounding areas
Use these repeaters without obligation
145.13 443.10 145.41 - Open phone patch
146.655 - N8HON/R SPRUCE KNOB, WV

THIS SPACE FOR RENT
WRITE OUR SALES MANAGER

"BE A PART OF IT"
The W4CA 2 Meter Phone Net
Wednesdays . . . . 8:00 P.M.
146.385 — 146.985 Repeater
Roanoke, Virginia
W4OLD/Dick — Net Manager
CLUB MEETINGS: 2nd & 4th Fridays

CLUBS, REPEATER OWNERS, NET MANAGERS
PROMOTE YOUR ACTIVITIES ON THIS PAGE. — 4 Issues
$16.00 A YEAR - PREPAID
WRITE OUR SALES MANAGER
(1-Year-$16.00 Minimum Contract)

147.135 N4HB/R
RICHMOND, VA
The N4HB Repeater
Covering Central Virginia
N4HB — WA4VXR — WB4BVY — WA4SSG

146.970 444.950
VIRGINIA BEACH, VA
WA4KXV REPEATERS
VIRGINIA BEACH EMERGENCY
AMATEUR REPEATER SOCIETY
146.895 145.010

SOUTHEASTERN REPEATER ASSOCIATION MEMBER SERA
Virginia
West Virginia
North Carolina
South Carolina
Tennessee
Eastern Kentucky
Georgia

COLUMBIA AMATEUR RADIO CLUB
COLUMBIA, S.C.
145.43
The N4HWU Repeater
Serving the Midlands of South Carolina
Club Net ..... Sundays at 8:30 p.m.
Club Meeting ..... 1st Monday at 7:30 p.m.
All area and visiting Amateurs are invited

Tennessee Minutes

— by Jean V. Giesler, W4TYU

Due to the unexpected resignation of J. Tom Park, WD4KWP, I have succeeded to the position of the SERA Tennessee Director. Tom resigned due to the press of his business demands. Thanks for a job well done for several years, Tom.

Sometime prior to his resignation, Tom had appointed Jim Larson WB4KQQ (Memphis) as his West Tennessee Assistant. Personal contact and a couple of inquiries showed that Jim is indeed a self-starter and knowledgeable of the coordination process. I recommended to Carter Cogle, SERA President that he be apponted as Tennessee Vice-Director. Carter has made that appointment official and we are off and running. Jim and I are in contact at least once a week either by mail or telephone and are working very closely with each other. Jim's area is the portion of the state of Tennessee which lies west of the Tennessee River.

Jim has already identified a large number of changes and additions to the database in the Memphis area. These appear in this issue of the Journal. He is contacting repeater trustees in the entire area and the results should give us the most accurate listings for West Tennessee we have ever had.

I know that there are probably a number of unfinished items which are still dangling. If you will let either Jim or myself know we will take immediate action to complete them. Fellows, we are here to serve you and want to give the very best we know how to do. The answer may not always be to your liking, but we will give a prompt written response to any communication.

For the benefit of the ones who do not know us, let me give a very brief background on each of us.

I am 64 years old, been a ham for 37 years and have been active in repeater work for about ten years. I am still employed and working every day. I am active on HF, mostly on CW and MARS.

Jim is retired (lucky guy) and is active on all bands but specializes in VHF and UHF. He owns two meter and 450 repeaters in the Memphis area. He is also very active on Packet.

Both of us wear several hats. I am the ARRL Delta Division representative on the Volunteer Repeater Advisory Committee and hold other appointments in the state. I am a member of both QCWA and SOWP. Jim holds top positions in the PACKET radio organization and has been responsible for making them the fine organizations that they are today. Both of us are active in the local radio clubs.

• • • • •

There is at least one Amateur Television Repeater located in Memphis. I have learned of plans for another and wonder if there are additional ones operational.

• • • • •

We are getting coordination requests for both 220 and 450 repeaters almost weekly. I have noticed that several have applied for multiple installations. If the frequencies can be coordinated, we will do so. Please remember that the "construction" permit is good for only six months and you must show activity during that period. There is such a demand for coordination that a frequency pair cannot and will not be held indefinitely.

• • • • •

Tim Berry, WB4GBI, has returned to Knoxville and has again assumed operation of his group of fine repeaters. Welcome back, Tim. The Radio Amateur Club of Knoxville has placed a new repeater with autopatch into service with the call of W4BBB on 145.21.

• • • • •

Let us know if there is any news, information, etc. which you would like to place in this column and we will do so.

JOIN ARRL

BENEFITS FOR YOU: QST, QSL Bureau, Awards (DXCC, WAS, etc.), Low Cost Insurance, Operating Aids, Government Liaison and more—Much more! For You!

Mail This Application To

In Roanoke Division,
Gay E. Milius, Jr., W4UG
Director, Roanoke Division
1416 Rutland Drive
Virginia Beach, Va. 23454

In Delta Division,
Joel M. Harrison, Sr., WB5IGF
Director, Delta Division
Rt. 1, Box 219B
Judsonia, Ar. 72081

USE THIS COUPON OR A FACSIMILE AND MAIL TODAY.

MEMBERSHIP APPLICATION

Ctsy. SERA Repeater Journal

Name _____ Call _____
Street _____
City _____ Prov./State _____ PC/Zip _____

$25 in U.S. $33 elsewhere (U.S. funds) Licensed amateurs, or age 65 or over, upon submitting proof of age, may request the special dues rate of $20 in the U.S. $28 elsewhere, in U.S. funds) Persons age 17 and younger may qualify for special rates, write for application.

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA _____ Expires _____

_____ Bank. No. _____ Expires _____

"SHENANDOAH VALLEY AMATEUR RADIO CLUB"

38th ANNUAL WINCHESTER HAMFEST

SUNDAY, AUGUST 7th, CLARKE COUNTY RURITAN FAIRGROUNDS, BERRYVILLE, VA.

Breakfast, Snack Bar, Ruritan's Famous Chicken & Beef Barbeque!

APPROVED HAMFEST

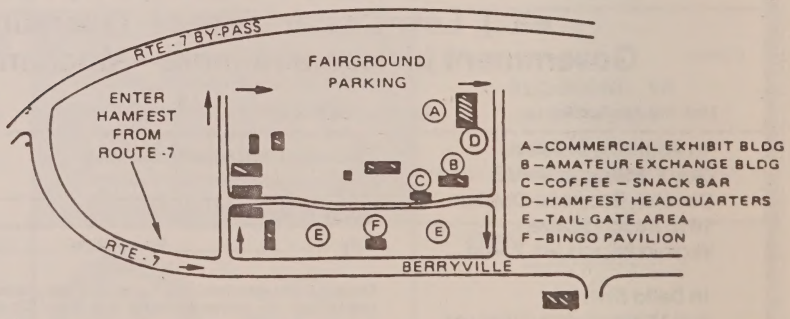
SHENANDOAH VALLEY AMATEUR RADIO CLUB INC.
W4RKC
SINCE 1948

V-E Exams
Sunday 9 AM

Talk in 146.22-82 & 52 Simplex

Ladies' Bingo, Arts and Crafts (Non-Commercial) GRAND PRIZES and Hourly Drawings with Donations from Major Manufacturers:

THREE MAJOR PRIZES



Registration $4.00; XYLs and Children - FREE, Grounds Open 7 AM

Tail-Gaters or Tables Bldg. B (First Come Basis) — $5.00 SET UP BEGINS 6 AM

Tail-Gaters' PRIZE DRAWING

View From The Peak

— by George Hinds, N8CIX
& Lake Erie ARA Newsletter

An incident that happened to me last year comes to mind as I ponder the value of mobile radio to amateurs confronted by a serious accident, a criminal act, etc.

We all agree that a rig in our car, plus an autopatch or a station willing and able to respond to our call, can provide a truly effective means of serving the public as an amateur radio operator. Right? But what if the station responding refuses to handle your call for help?

That's just what happened to me during an evening when, climbing up Ute Pass enroute home, I came aross a motorcyclist sprawled alongside the road, obviously injured and unable to get up. Some few cars had stopped; I was in an outside lane and could not stop safely in the narrow canyon.

I called on a repeater for help; a station answered and I briefly described the situation and requested he call the Colorado State Patrol. Instead of doing as I had asked, that station refused to make the call! His reason: "the state patrol never responds to such calls unless the reporting party stops on the scene to confirm the need!"

It wasn't the time to argue! I switched repeaters, got a response and help was on the way.

If you Participate in an Emergency Call, The "Name of the Game" is to TAKE ACTION!

Looking back on years of making emergency calls via LEARA repeaters, and during travels in the U.S. and Canada, I had not been turned down like this - so, on arriving home, I called the Patrol, told them I had been the person originating the call, and asked if they would, or would not, respond when I had not been able to safely stop.

Their answer: "emergency" calls are a duty to which they must respond, no matter whether the reporting party did, or did not, stop at the scene. City police agencies I also checked with gave me the same answer. I finally determined that a "911" operator once refused to dispatch help because the amateur calling in had not stopped at the scene, despite the fact that the policy of the PD involved was to respond in all such cases. Presumably, if the incident then was pursued, discipline could have resulted.

The moral of the story, of course, is to act promptly when given an "emergency" report; call it in and leave the decision to the agency involved - don't take it upon yourself to deny assistance under such circumstances. If you can stop and check, as is the case most of the time, do so - but don't endanger yourself or others just to be "on the scene."

Another thought: if you decide to pull over to help a motorist, make it a point to call someone on the air and give them your location, the license number, make and color of the vehicle you're assisting, and make it clear you will call them back very soon - and if you don't, and don't answer their call, they are to call the police promptly. Don't take unwise chances. If in doubt about your safety, drive by, grab a description, and then call it in and let the police decide.

(Editor's Note: I have also found it a very important practice when calling in emergencies such as automobile accidents with injuries, do NOT tell the police to "send an ambulance", tell them there is an accident with "injuries involved" and let THEM make the decision to send an ambulance. It is also a wise practice to let the police decide upon calling the Fire Department or wreckers, based on information YOU provide. Let them make the decisions. You provide the COMPLETE information for them to make the decision.)

Journal Newstippers

You can be a newstipper for the Repeater Journal. If your club has an interesting story to tell, or they participated in a public service activity, write it up and send it in.

The Repeater Journal is your magazine. It contains news about you and your neighbors. We are always looking for good writers. How about you?

Send your items or comments to the Journal editor.

ARNS Newsletter Winners Announced

Several area newsletters were winners in the 1987 Amateur Radio News Service Publications Contest.

Winners in Category "A" (memberships of 500 plus) included:

ATLANTA HAM, "Superior" for the Atlanta, Ga. Radio Club, Claire Farmer, N4HJR, editor.

AUTO-CALL, "Excellent" representing the Foundation for Amateur Radio, published in Falls Church, Va., Ethel Smith, K4LMB, editor.

FLORIDA SKIP, Inc. "Excellent" for various Florida clubs, published in Miami Springs, editor, Andy Clark, W4IYT.

REPEATER JOURNAL, "Superior" for Southeastern Repeater Association, Inc. Published in North Carolina, editor Wayne Williams, K4MOB.

The TSRAC BMT, "Good" for Triple States RA, published in Adena, Ohio, editor, Ralph McDonough, K8AN.

Area winners in Category "C", with clubs sized 126 to 250 members were:

HAMNEWS, "Superior", for Bluegrass ARS of Lexington, Ky., Bill Devore, N4DIT, editor.

SERA Area winners in Category "D" with clubs sized 76 to 125 were:

OAK RIDGE ARC Newsletter, "Good" published in Oak Ridge, Tn., edited by Jim Kerns, N4PUQ.

GROUND WAVES, "Good", for the Coastal Area Repeaters Society, of Savannah, Ga., Jay Jenson, N4LLY, editor.

RADIATION, "Superior" for the Chattanooga, Tn. ARC, editor Charlie Ann Coble, WG4G.

RAT'S TALE, "Superior" for the Radio Amateur Transmitting Society of Nashville, Tn. Editor, Ben Begnadd, KA4HLF.

Our thanks to ARNS for providing the Repeater Journal with results of the contest in their April Bulletin. See other story this issue for information on joining or entering the ARNS Publications Contest.

Regency Sells TO Uniden

— via W4WI News

Regency Electronics has sold its consumer products division to rival Uniden Corporation.

Regency plans to use the proceeds to fund startup costs of "Budgetel", a franchised low-priced alternative to cellular telephone service.

"Last Chance For Supplies Before Field Day"

The Forsyth Amateur Radio Club presents the

WINSTON-SALEM HAMFEST - COMPUTER & ELECTRONICS FAIR

SATURDAY, JUNE 11, 1988 9:00 A.M. - 5:00 P.M.

Dixie Classic Fairgrounds, Winston-Salem, NC

Dedicated to the memory of Wilson Lamb, W4BOH

FORSYTH AMATEUR RADIO CLUB W4NC

Amateur Radio Exams - 9:00 A.M.

By Pre-registration (Limited walk-ins may be accepted, space permitting). Send completed 610 form, photocopy of original license, code/theory certificate of completion and check or money order for $4.50 payable to TEARC/VEC to:

Bob Gates, KJ4IC
Box 60 Cedar Grove Park
Kernersville, N.C. 27284
(919) 996-5196

Exam Site: Red Cross Bldg, 690 Coliseum Drive, Winston-Salem, NC. Please bring original ham ticket and one other form of ID.

146.04/6.64 Winston-Salem Talk-in Frequencies 144.87/5.47 Sauratown Mtn

Prizes:
1st Santec ST2OT
2nd MFJ 1270B Packet Interface
3rd AEA 2-Meter Isopole

Plus Hourly Prizes. Main Prizes Drawing Time: 4:30 P.M.
(Main Prizes obtained through Williams Radio Sales and Omar Electronics)

ARRL Sanctioned

Free Parking - Food Available on Site

Tailgating - $2.00 plus ticket Indoor Booths - $10.00 per table

Info/Reservations: Jim Rodgers, N1DRI PO Box 11234 Winston-Salem, NC 27116 (919) 760-2493

Tickets - In Advance - $4.00 At the gate - $5.00

Send s.a.s.e. to: Dave Ward, KA4LVO 5573 Vienna-Dozier Rd. Pfafftown, NC 27040
(Requests received after June 1 will be held at the gate)

Fireworks at the National Coordinator's Conference

Special to the Journal
— by Ray Adams, N4BAQ; and Jean Giesler, W4TYU; with Richard Slover, N4DF; and John Cotter, N4MHA

(Editor's Note: Our thanks to Ray Adams and Jean Giesler, W4TYU, SERA representatives to the conference for phoning in coverage to the Repeater Journal.)

Both the ARRL and the FCC took it on the chin at the National Coordinator's Conference held last week at the Dayton Hamvention.

Coordinators blasted the ARRL for not backing them and recommended the FCC change their ground rules concerning Amateur frequency coordination.

The forum room, designed to seat about 80 persons was filled beyond capacity with almost 200 people. The air was filled with electricity, and tensions were high. So high in fact, that several speakers decided to withhold additional controversial comments for fear of disrupting the whole meeting and throwing it into chaos.

George Waldie, W8JRL, or the Ohio Repeater Association and editor of the National Coordinator's Newsletter was moderator of the forum. He had previously sent out a suggested forum for approval by speakers and coordinators, but it seemed immediately things weren't going to go the planned way.

An interesting part of the meeting was the presence of Ray Kowalski, former Chief of the Special Services division who spoke on his personal perspective of Amateur Radio -- his personal thoughts.

You will recall, it was that infamous letter from Kowalski, just before he resigned the FCC, stating the Commission felt there was no reason two different coordination groups could not serve the same geographical area, in solving a dispute in California.

"This letter was absurb," Kowalski said, "but given the same circumstances, I would arrive at the same conclusion again."

The letter has been the focal point of turmoil within Amateur Radio Coordinators, the ARRL and the FCC every since it was released last year.

In his presentation to the forum, Kowalski said that the problem we have, there is no authority for Amateurs to Coordinate. Deregulation does not work in Amateur radio. If we (the Amateurs) don't fix the problem, we're ammunition to outsiders (who would love to have our frequencies).

Kowalski said that in his opinion, Amateur coordinators problems arise on trying to ride the coattails of legitimacy.

"Walk away, and stay away until the FCC changes their ground rules," Kowalski told the forum.

His advise was for coordinators to do nothing further until the FCC revised the rules.

Additional heat was directed toward the FCC as Dennis Crabb, WB0GGI, President of the Mid-America Coordination Council spoke. He said the FCC is interested only in the outcome as far as legitimacy of Coordination council conflicts. He said support for coordination councils may be counted from whom dues are paid.

Crabb also appealed to Robert McNamara, Chief of the FCCs Special Services Division to correct the FCCs erronous position, which was announced by Kowalski last year.

Other points made by Crabb:

(1) Regional coordination bodies need to be reviewed in hearings in case of disputes, either paper hearings, or possibly actual face to face meetings.

(2) Hams should make the decisions in disputes, absolutely no professionals (possible reference to lawyers, courts and suits.)

(3) FCC has said they would use the (ARRL) Repeater Directory to identify Coordinators, but the ARRL doesn't want to be in a position of satisfying the Coordinators.

(4) The National Data Base may be mortally wounded.

(5) MACC is withdrawing support of the (ARRL) Directory and National Data base and is exploring copyright of their repeater lists.

In summary, Crabb said that we need action by Hams. We need to do it now! The FCC must change their interpretation of present regulations. The ARRL needs to back the Coordinators.

Steve Mendelso, WA2DHF of the New England Coordinating Council speaking, asked the question, "What are Coordinators" - with the answer, "volunteers with NO authority", with an overall goal to lessen repeater interference between operators.

Mendelsen defended the ARRL by saying "No one could hurt them." He said the ARRL Repeater Directory was

Continued on Page 47

What's All The Fuss About!

For years, SERA and other established coordination councils across the country, have unselfishly devoted hours on computer, and the phone, to supply ARRL with the latest information about reporters in their area, for each new edition of the ARRL Repeater Directory.

The ARRL said that this was necessary, since Ray Kowalski, as he resigned from the FCC had stated that the FCC could recognize more than one coordination body in a same geographical area. The ARRL said it was necessary to present all information about coordinators, and felt compelled to publish the name of any coordinator who could claim recognition in any certain area.

Several repeater councils, including SERA objected to this plan. Our reasoning was that if the ARRL published the coordinators name in their Directory, it was basically made "official", because the FCC has stated on several occasions that they acknowledge the ARRL Repeater Directory as the only nationwide source of repeater and coordination information.

SERA and MACC (the Mid America Coordination Council) both argued that it was NOT necessary for ARRL to publish ANY coordinators name in their Directory, since some names may be in coflict. The two councils felt that instead, the ARRL could make a statement to the effect that persons wishing coordination, could contact their local council for assistance.

This would have been a satisfactory solution for both SERA and MACC. Both councils agreed that the ARRL was obligated to list the source of info for repeater listings they received, but it was not necessary to include the optional listing of ALL the coordinators.

The ARRL refused to consider SERA and MACCs request, and apparently published the list anyway.

Both SERA and MACC as well as other councils feel this opens the door for anyone who wants to be a coordinator in any area, will only have to get some backing, and contact the ARRL for future listings in their Directory.

This, argued SERA and MACC gives any council the recognition they want in the eyes of the FCC, regardless of their planned function.

DO NOT WRITE ABOVE THIS LINE

SouthEastern Repeater Association, Inc.

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR _____

City/Mtn (Max 14 Char)	Callsign	Input Freq.	Output Freq.	
_____	_____	_____	_____	No. 1
_____	_____	_____	_____	No. 2
_____	_____	_____	_____	No. 3
_____	_____	_____	_____	No. 4

Name two Full Member Representatives to CVRA-SERA (ONLY These Two Persons Receive A Journal)

Name _____ Call _____ Name _____ Call _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

Phone: ( ) _____ Phone: ( ) _____

ARRL Member ( ) Yes ( ) No ARRL Member ( ) Yes ( ) No

Membership: New_____ Renewal_____ Fee Enclosed ( ) Yes ( ) No Amount:_____

Repeater Sponsor _____ Date _____

Please fill in all portions of this form. Highlight any changes from last year.

Date Rptr. Placed in Service: Experimentally _____ Reg. Svc. _____

Was your Frequency Coordinated ( ) Yes ( ) No Date Coordinated this loc _____

Coordinator's Name _____ (If Not Coord) Pls. Explain _____

ACTUAL REPEATER LOCATION: (Mtn./City)_____

Longitude _____ Degs. _____ Mins. _____ secs. Latitude _____ Degs. _____ Mins. _____ Secs.

Repeater Coverage: (Cities & Counties)

BASE: _____

MOBILE: _____

Transmitter _____ Receiver _____ Duplexer _____

Antenna _____ Duplexed: ( ) Yes ( ) No Split Site: ( ) Yes ( ) No

Split Site Linkage type _____ (If Radio, Frequency used) _____

Linked with any other repeaters: ( ) Yes ( ) No Linking Freq. _____

Name (if any) other repeaters linked_____

ANTENNA: Height above MSL _____ Height AAT _____ Power (ERP) _____

REPEATER: Open____ Closed____ AUTOPATCH: Open (A)_____ Private (PA)_____ Emerg. (EA)_____

If closed, Access is: Tone Burst_____ Hz, Touchtone_____ Buttons

Repeater I.D. is: CW_____ Voice_____ Rptr. control via: _____

Other information_____

Repeater Membership Fees:
All Memberships Expire Dec. 31

$15.00 annually - Payable Jan. 1
$12.00 after April 1
$8.00 after July 1
$6.00 after October 1

Mail Application & Check To:

SERA REPEATER MEMBERSHIP
POST OFFICE BOX 24292
WINSTON-SALEM, N.C. 27114-4292

Thank you!

National Coordinator's Conference

published for the traveling ham. Repeater groups could not copyright their lists, because the ARRL could go back to the white card and get their repeater information anyway. (Cards sent and received to all known repeater owners for listings information each year).

He also said that we have problems popping up of 2nd (dual) coordinators because some hobbyist didn't get his way (in a coordination dispute). He felt the League should fund regional conferences, possibly starting in St. Louis to work out differences in various Coordinating councils. He said that councils need to standardize their coordination policies.

Gary Hendricksen, W4DTN of TMARC (author of the National DataBase) reported that the project was coming along fine and would be on line possibly in late Summer or Fall of 1988. He also described their system of computer driven scanners that T-MARC uses to determine unused repeater frequencies for purposes of coordinating shared frequencies.

In a summary of the meeting by the SERA delegation, it was felt perhaps something may come out good from this. At least the Nation's Amateur news media was present, and these problems should become available in print to the entire Amateur population, finally.

The group felt the National DataBase is on the verge of self-destruct unless something changes quickly.

At the meeting, aside from SERA (7-States), MACC (8-States), Florida, California, Colorado and some others mentioned the fact they are either pulling out, or considering pulling out of the National Data base. It seemed that T-MARC and New England councils were among the few that were taking a stand for the Data base, it seemed from brief surveys taken at the forum by the SERA delegation.

The SERA group said "We believe the only satisfactory answer to the problem we have today is the return of repeater licensing, possibly factored to the private economy and financed in a manner not that different from the VEC program."

There are, of course, many decisions as to how and by whom that remain to be made, but this appears to be the only viable answer visible to the SERA delegation and several others polled.

Of course, rewrite of the present rules are only part of what we need, as of now, a b-i-g part.

The FCC is doing an admirable job of demonstrating that we have a government that is determined not to govern.

SERA News Release

Here are excerpts from the SERA News release that Ray Adams, SERA Treasurer issued at the Coordinator's Conference at Dayton.

"Organized in the earliest days of repeaters, we have tried to represent responsible conservatism in regard to spectrum management, believing it to be in the best interest of the Amateur Community.

. . . Through the years as the authoritative governmental agency regulating the spectrum, the FCC has consistently accepted the coordinator as listed in the only national repeater directory as the recognized coordinator for the geographic area and spectrum segment in question. . .

. . . The 1988 edition of the national repeater directory just off the press recognized all who claim coordinator's status as full equals, thus inviting acceptance of the self-appointed by the FCC when judged by their past actions, even to the recognition of duplications in geographic areas and spectrum segments.

. . . as a result of this act, the May 1988 issue of the Repeater Journal. . . contains repeater indexes with the notation 'copyright 1988'. . .

. . . we will, of course, consider release of copyright to that publisher of a national or other directory who recognized only one coordinator for a given geographic area and spectrum segment. . ."

The release was signed by Carter Cogle, K4ARO, president of SERA, and approved by the SERA Board of Directors.

SERA Full Membership Stalls

Full Member repeaters have been slow in getting their renewals in for the second quarter of 1988. SERA totals in the Frequency Journal were up to par, but apparently many owners who noticed the "D" beside their repeater in the index, forgot to get in their membership in time for this issue of the Repeater Journal.

In the chart below, North Carolina continues to lead with 61.6% membership. The remaining other six states still fall below the 50% mark, with South Carolina and Virginia nipping just below that half way point.

Georgia and Tennessee made modest gains, but it should be pointed out, that surveys of both states turned up about a dozen additional repeaters that had been missed in previous counts, which added to the totals of both states, which obviously wiped out the percentage of membership gains for the quarter.

Percentage of membership is calculated by the number of SERA Full Member repeaters, divided by the total known repeaters in that state.

Still Time To Join

Repeater owners are reminded that there is still plenty of time to join or renew their Full Memberships for 1988. Repeater memberships, with two persons acting as voting representatives for SERA, each receiving the Repeater Journal, now costs only $12.00 until July 1, and $8.00 after July 1 for the remainder of the calendar year.

Appication forms may be found in the February Journal, you may write for one: SERA Membership, P.O. Box 24292, Winston-Salem, N.C. 27114, OR merely enclose a check for dues, with the names, calls, and addresses of your two representatives. Be sure to list all information about your repeater AS IT IS LISTED in the Journal.

CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE. CORRECT AS OF 4-20-88 THRU '88 APPL. # 279

	REPEATER								
STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	FINAL 1987	CURR 1988	1988 MBR %	STATE RPTR	#1988 APPLIC
N.C.	100	83	149	147	123	133	61.6%	216	87
S.C.	24	35	56	43	44	39	47.0%	83	26
VA.*	58	60	92	88	98	94	49.7%	189	51
W.VA.	28	21	41	40	51	34	37.4%	91	21
TENN.	47	58	85	63	80	66	28.4%	232	42
GA.**	9	18	109	125	110	70	30.6%	229	41
E.KY***	1	4	18	21	19	11	28.2%	39	10
ALA.****	1	1	4	67	7	2	--	--	1
FLA.****	--	--	--	4	--	0	--	--	0
TOTALS	268	280	554	598	532	449	41.6%	1079	279

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. & WV PANHANDLE - TMARC TERRITORY.
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1988 % OF SERA FULL MBR DOES NOT INCL. ALA & FLA--ONLY OUR 7 DISTRICTS.

Coming Events

SERA REPEATER JOURNAL CALENDAR OF EVENTS

MAY 1988

8	Hamfest, BLUEFIELD, WV
14	DFMA Hamfest, DURHAM, NC
14-15	ARRL Roanoke Div. LPM Meet, CHARLOTTE, NC
14-15	Hamfest, BIRMINGHAM, AL
21	Hamfest, KNOXVILLE, TN
29	Hamfest, ROANOKE, VA
29	Md. FM Assn. Mem. Day Hamfest, W.FRIENDSHIP, MD

JUNE 1988

4	Hamfest, ATHENS, GA
5	Hamfest, MANASSAS, VA
11	Hamfest, WINSTON-SALEM, NC

JULY 1988

2-3	WV State ARRL Conv., JACKSON'S MILL, WV
9-10	Hamfest, ATLANTA, GA
16	Summer Swapfest, CARY, NC
17	TSRAC Hamfest, WHEELING, WV
31	BRATS Hamfest, W. FRIENDSHIP, MD
31	WCARS Hamfest, ASHEVILLE, NC

AUGUST 1988

2	Maury ARS Hamfest, COLUMBIA, TN
7	Winchester Hamfest, BERRYVILLE, VA
7	Jax County Hamfest, RIPLEY, WV
13-14*	Hamfest, HUNTSVILLE, AL
14*	New River Valley Hamfest, DUBLIN, VA
27-28	Hamfest, MADISON, GA
27-28*	Hamfest, MELBOURNE, FL
28*	Hamfest, CEDARS OF LEBANON, TN

SEPTEMBER 1988

2-4	ARRL SW Division Hamcom, ANAHEIM, CA
3-4	31st Annual Hamfest, SHELBY, NC
9-11	ARRL National Convention, PORTLAND, OR
10-11*	Hamfest, MOBILE, AL
10-11*	Hamfest, LOUISVILLE, KY
11	Foundation A.R. Hamfest, GAITHERSBURG, MD
17-18	Roanoke Div. ARRL Conv., VIRGINIA BEACH, VA
18*	Cincy.Hamfest, CINCINNATI, OH
18*	Hamfest, CLEVELAND, OH
24*	Hamfest, ANNISTON, AL
25*	Hamfest, Lanierland ARC, GAINSVILLE, GA

OCTOBER 1988

1	TARA Hamfest, HUNTINGTON, WV
1-2*	Hamfest, BILOXI, MS
2*	Hamfest, ROCK HILL, SC
2*	Hamfest, ROME, GA
8-9*	Central GA Hamfest, WARNER ROBBINS, GA
8-9*	Hamfest, MEMPHIS, TN
8-9*	Hamfest, VERO BEACH, FL
9*	4th Annual Techfest, RICHMOND, VA
9*	Hamfest, MAYSVILLE, NC
14-16	11th Convention, HOUSTON, TX
15*	Tri-Cities Hamfest, GRAY, TN
22-23	Georgia-Line HF/Comp. Fair, AUGUSTA, GA
29-30	Hamfest, CHATTANOOGA, TN

NOVEMBER 1988

5-6	Ham Radio/Comp Expo 88 LAWRENCEVILLE, GA
6	Hamfest, CONCORD, NC
12-13*	Central Alabama Hamfest, MONTGOMERY, AL
12-13*	Hamfest, GREENSBORO, NC
19	Hamfest, SUMTER, SC

WHERE TO BUY DIRECTORY

Advanced Computer Controls (ACC) (CA) 14-15
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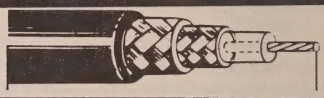
DEADLINE: For confirming show dates, or for hamfest Advertising for the upcoming AUGUST REPEATER JOURNAL, the deadline is JULY 1, 1988.



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